

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. <i>(If applicable)</i>	
6. ISSUED BY		CODE		7. ADMINISTERED BY <i>(If other than Item 6)</i>		CODE	
8. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i>				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED <i>(SEE ITEM 11)</i>	
						10A. MODIFICATION OF CONTRACT/ORDER NO.	
						10B. DATED <i>(SEE ITEM 11)</i>	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER <i>(Specify type of modification and authority)</i>

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER <i>(Type or print)</i>		16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or print)</i>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
<i>(Signature of person authorized to sign)</i>		<i>(Signature of Contracting Officer)</i>	

Item 14. Continued.

CHANGES TO STANDARD FORM 1442

1. Standard Form 1442 - Replace both pages of this form with the accompanying new SF 1442 form bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017."

CHANGES TO BIDDING REQUIREMENTS

2. Section 00110, PROPOSAL SUBMISSION AND EVALUATION - Replace this Section with the accompanying new Section of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017:"

CHANGES TO SECTION 00700 CONTRACT CLAUSES

3. Page 00700-89 - Add the following two clauses to this page:

"52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than **(See Section 01001 for number of days)** calendar days after receipt of notice to proceed. The time stated for completion shall include final cleanup of the premises.

"52.211-12 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount **specified in Section 01001** for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause."

CHANGES TO 00710 WAGE RATES AND 00720 AFFIRMATIVE ACTION REQUIREMENTS

4. 00710 Wage Rates and 00720 Affirmative Action Requirements.- Following the Contract Clauses page 00700-89, replace the two pages containing the notes concerning rates of wages and affirmative action requirements with the attached pages 00710-1 through 00710-14 and page 00720-1, each page bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017."

CHANGES TO SECTION 00800 SPECIAL CONTRACT REQUIREMENTS

5. Section 00800, SPECIAL CONTRACT REQUIREMENTS.- Replace this Section with the accompanying new Section of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017."

CHANGES TO PROJECT REQUIREMENTS AND SPECIFICATIONS

6. Replacement Sections - Replace the following sections with the accompanying new sections of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017:"

01012 DESIGN AFTER AWARD

CHANGES TO THE APPENDICES

7. Appendix 15.- After this Appendix add the accompanying new Appendix No. 16 DD Form 1354, Sample, And Category Codes bearing the notation "ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017."

END OF AMENDMENT

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>		1. SOLICITATION NUMBER	2. TYPE OF SOLICITATION <div><input type="checkbox"/> SEALED BID <i>(IFB)</i> <input type="checkbox"/> NEGOTIATED <i>(RFP)</i></div>	3. DATE ISSUED	PAGE OF PAGES
IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.					
4. CONTRACT NUMBER		5. REQUISITION/PURCHASE REQUEST NUMBER		6. PROJECT NUMBER	
7. ISSUED BY		CODE	8. ADDRESS OFFER TO		
9. FOR INFORMATION CALL		A. NAME		B. TELEPHONE NUMBER <i>(Include area code) (NO COLLECT CALLS)</i>	

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS *(Title, identifying number, date):*

11. The Contractor shall begin performance within _____ calendar days and complete it within _____ calendar days after receiving
☐ award, ☐ notice to proceed. This performance period is ☐ mandatory, ☐ negotiable. *(See _____.)*

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and _____ copies to perform the work required are due at the place specified in Item 8 by _____ *(hour)*
local time _____ *(date)*. If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes
containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee ☐ is, ☐ is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than _____ calendar days for Government acceptance after the date offers are due will not be considered and will
be rejected.

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)

15. TELEPHONE NUMBER (Include area code)

16. REMITTANCE ADDRESS (Include only if different than Item 14)

CODE

FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. (Insert any number equal or greater than the minimum requirement stated in 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)

AMOUNTS



18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGEMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.

DATE

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

20B. SIGNATURE

20C. OFFER DATE

AWARD (To be completed by Government)

21. ITEMS ACCEPTED

22. AMOUNT

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN IN
(4 copies unless otherwise specified)

ITEM

25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO

☐ 10 U.S.C. 2304(c) ()☐ 41 U.S.C. 253(c) ()

26. ADMINISTERED BY

CODE

27. PAYMENT WILL BE MADE BY

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

☐ 28. NEGOTIATED AGREEMENT (Contractor is required to sign this

document and return _____ copies to the issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.

☐ 29. AWARD. (Contractor is not required to sign this document.) Your

offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN
(Type or print)

31A. NAME OF CONTRACTING OFFICER (Type or print)

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA

31C. AWARD DATE

BY

SECTION 00110
 PROPOSAL SUBMISSION AND EVALUATION
 (AMENDMENT NO. 0001)

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ATTACHMENTS:

PERFORMANCE SUMMARY SHEETS (CONSTRUCTION)

PERFORMANCE SUMMARY SHEETS (DESIGN)

NET AREA CALCULATION WORKSHEETS

CONSTRUCTION MATERIALS, PRODUCTS, EQUIPMENT AND SYSTEMS

SAMPLE FORM: CONSTRUCTION MATERIALS, PRODUCTS, EQUIPMENT, AND SYSTEMS

SECTION 00110 PROPOSAL SUBMISSION AND EVALUATION

1 PROPOSAL SUBMISSION

See also Section 00100 INSTRUCTIONS TO OFFERORS, FAR Clause 52.215-1, INSTRUCTIONS TO OFFERORS—COMPETITIVE ACQUISITION.

1.1 WHERE TO SUBMIT

Offerors shall submit their proposal packages to the Fort Worth District at the address shown in Block 8 of Standard Form 1442.

1.2 SUBMISSION DEADLINE

1.2.1 PHASE 1 SUBMISSION DEADLINE

Submit Phase I of the Proposal no later than the date and time indicated in Item 13.A of the Solicitation, Offer and Award form (Standard Form 1442) found in Section 00010, SOLICITATION, OFFER, AND AWARD.

1.2.2 PHASE 2 SUBMISSION DEADLINE

Submission deadlines and procedures will be included with the request to submit Phase 2 proposals. Proposals from Offerors who were not requested to submit Phase 2 proposals will be returned without consideration. .

2 PROPOSAL REQUIREMENTS AND FORMAT

2.1 PROPOSAL FORMAT

All proposals shall contain the evaluation requirements stated herein. All written information and data shall be in an 8 ½" x 11" format and shall be provided in a standard 3-ring binder. Every binder shall contain: Table of Contents, List of Tables or Figures (if required), and List of Appendixes. Font size shall be not less than 10 point. Each page shall be identified with the appropriate page number centered at the bottom of the page. Sheet size of the proposal contents shall be 8 ½ by 11 inches. 11 by 17 inch sheets will be allowed for charts and tables but will be counted as 2 single-sided or 4 double-sided pages. Legibility, clarity, coherence, and the contents are important. Contents shall follow the order of the evaluation criteria and pages shall be numbered. The offeror shall not submit verbatim sections or attachments of this solicitation as part of their proposal. Only written proposals will be accepted. Oral, electronic, and facsimile proposals will not be accepted. Offers that do not meet these requirements may be subject to rejection.

- a. A cover sheet identifying the offeror and the project shall be provided. The second sheet shall be a Table of Contents.
- b. Table of Contents. The proposal shall contain a detailed Table of Contents. The complete Table of Contents shall be included in each binder used.

- c. Materials submitted but not required by this solicitation (such as company brochures and equipment lists) shall be relegated to appendices.

Firms submitting proposals shall limit submission to data essential for evaluation of proposals so that a minimum of time and monies are expended in preparing information required by the RFP. Data submitted must reflect the designer's interpretation of criteria contained in the RFP. Unnecessarily elaborate or voluminous brochures or other presentations, beyond those sufficient to present a complete and effective response, are not desired and may be construed as an indication of the firm's lack of cost-consciousness. Elaborate artwork, expensive paper and bindings, and expensive/extensive visual and other presentation aids are unnecessary.

Technical proposals will be evaluated for conformance with the minimum RFP criteria, and for the extent to which they exceed those criteria. While the intent is to keep the pre-award design effort to a minimum, proposals must provide adequate detail for evaluators to determine how the proposals meet or exceed the RFP criteria. It must also form sufficient basis for a fair and reasonable price proposal.

Proposal clarity, organization (as stated in this solicitation) and cross-referencing are mandatory. No material (information not part of proposal) shall be incorporated by reference. A proposal that does not conform to these requirements may be considered non-responsive and the proposal returned to the Offeror.

Revisions: Proposal revisions for written portions of the proposal, including catalog cuts and specifications, shall be submitted as page replacements with revised text readily identifiable, e.g. bold face print or underlined. The source of the revision, e.g. Error, Omission, or Clarification (EOC), amendment or other Contractor-initiated change, shall also be indicated for each revision. Revised pages shall be numbered, dated, submitted in same number of copies as the original proposal submittal, and a different color page than the original.

Electronic Material: The successful offeror shall submit one copy of the proposal and all revisions, if applicable, on CD-ROM disk within 5 calendar days of the notice of contract award. Revisions shall be incorporated in the documents, marked and tabbed according to the final proposal revision. All textual material, catalog cuts, and other non-drawing material shall be in Adobe Acrobat Portable Document Format (.pdf), arranged in the same order as the hard copy version with each section or part book marked. All drawings shall be formatted in accordance with Section 1012 SUBMITTALS DURING DESIGN, Part 3 Paragraph ".CAL Files." The offeror must ensure that all textual material, if it has been scanned, has been converted to a text searchable document by using the Paper Capture tool in Adobe Acrobat.

2.2 PHASE 1 PROPOSAL FORMAT

All Phase 1 proposals shall be submitted in a **single 3-ring binder labeled as Volume I** with tabs separating the factors shown on the table below. **The original plus 9 copies of Volume I shall be submitted.** VOLUME I SHALL NOT EXCEED MORE THAN 70 SINGLE-SIDED OR 35 DOUBLE-SIDED PAGES, EXCLUSIVE OF THE COVER SHEET, TABLE OF CONTENTS, AND APPENDICES..

TABLE 1 PHASE 1 PROPOSAL FORMAT		
VOLUME/TAB	EVALUATION FACTOR/SUBFACTOR	RELATIVE IMPORTANCE
Volume I, Tab 1	Contractual Documents A. Cover Letter B. Section 00600 C. Bonding Statement	Acceptable/Unacceptable

Volume I, Tab 2	Personnel A. Design-Build Personnel B. Letters of Commitment	Approximately equal to Tab 3; Slightly more important than Tabs 4, 5, and 6; Significantly more important than Tab 7.
Volume I, Tab 3	Experience (Design & Construction) A. Design Experience B. Construction Experience	Approximately equal to Tab 2; Slightly more important than Tabs 4, 5, and 6; Significantly more important than Tab 7.
Volume I, Tab 4	Past Performance (Design & Construction) A. Past Performance B. Health & Safety Record	Slight less important than Tabs 2 and 3; Slightly more important than Tabs 5 and 6; Significantly more important than Tab 7.
Volume I, Tab 5	Program Management Plan (Overall Technical Approach)	Approximately equal to Tab 6 Slightly less important than Tabs 2, 3, and 4; Significantly more important than Tab 7.
Volume I, Tab 6	Project Management Plan	Approximately equal to Tab 5; Slightly less important than Tabs 2, 3, and 4; Significantly more important than Tab 7.
Volume I, Tab 7	Past Performance (Utilization of Small Business Concerns)	Significantly less important than Tabs 2, 3, 4, 5, and 6.

2.3 PHASE 2 PROPOSAL FORMAT

Phase 2 proposals, except for drawings, shall be submitted in **two 3-ring binders labeled as Volume II and Volume III** with tabs separating the factors shown on the table below. Drawings shall include 4 full size sets in accordance with Section 01012 SUBMITTALS DURING DESIGN and 6 sets which are half size. Each drawing shall be identified with the appropriate Sequence and Sheet Numbers in the lower right hand corner. Firms are encouraged to provide INFORMATIVE DRAWING NOTES to convey important features of their design. Drawing information shall present basic concepts, arrangements, and layouts. Arrangements, layout plans, and notes may be combined together on single sheets in order to simplify presentation, so long as clarity is maintained. Drawings are not intended to be construction detail plans. **The original plus 9 copies of Volume II and original plus 1 copy of Volume III shall be submitted.**

a. Alternate Designs: Alternate designs, which may or may not be priced as additive or deductive items shall be graphically described on separate drawings from the base proposal design. All alternate designs shall meet the minimum requirements of the solicitation.

b. Revisions: Proposal revisions for drawings shall be submitted as sheet replacements with all changes identified on the drawings with clouds and in the title block, including the source of the revision, e.g. Error, Omission, or Clarification (EOC), amendment, or other Contractor-initiated change. Revised drawings shall be numbered, dated, and submitted in the same number of copies as the original proposal submittal.

Electronic Material: See paragraph PROPOSAL FORMAT, subparagraph "Electronic Material."

TABLE 2		
PHASE 2 PROPOSAL FORMAT		
VOLUME/TAB	EVALUATION FACTOR/SUBFACTOR	RELATIVE IMPORTANCE
Volume II, Tab 8	Concept Design A. Building Design B. Site Design C. Supporting Data D. Number of Living Units	Slightly more important than than Tab 9.
Volume II, Tab 9	Project Management A. Project Schedule B. Project Management Plan	Slightly less important than Tab 8.
Volume II, Tab 10	Utilization of Small Business Concerns* A. Subcontracting Plan B. Mitigation Efforts 2 Utilization of Small Business Concerns D. Description of Subcontracted Supplies & Services E. Acknowledgements	Acceptable/Unacceptable
Volume III	Price A. Cover Letter B. SF 1442 & Section 00010 (Price Proposal Schedule) C. Bonding	Approximately equal to the combined importance of all other evaluation factors (Volumes I & II).

** Applies to Large Businesses Only*

2.4 REFERENCED PUBLICATIONS

Corps of Engineers' (COE) design criteria and manuals that are referenced in this solicitation, such as Technical Manuals (TM) and Instructions (TI), Military Handbooks, Engineering Regulations (ER), and Engineering Manuals (EM), can be downloaded from the Internet at the following address: <http://www.hnd.usace.army.mil/techinfo> or obtained from the current National Institute of Building Science's (NIB) Construction Criteria Base (CCB) CD-ROM disk. The COE SWD-AEIM and EC 1110-1-92 are on the Solicitation CD-ROM Disk. The Installation Information Infrastructure Architecture (I3A) guidelines can be downloaded from the Internet at the following address: <http://arch-odisc4.army.mil/>. Obtaining other referenced publications such as Federal and Military specifications, Military Standards, and industry standards (i.e., ASTM, ANSI, ACI, NFPA, building codes) will be the responsibility of each offeror. See Section 00100, paragraph "52.211-2 AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) AND DESCRIPTIONS LISTED IN THE ACQUISITION MANAGEMENT SYSTEMS AND DATA REQUIREMENTS CONTROL LIST, DOD 5010.12-L (AUG 1998)", for information on obtaining these publications. Offerors are warned that due to the limited time for proposal preparation and submittal, there may not be enough time for ordering and receiving any of the above references. Failure to receive requested references will not be sufficient reason for extension of the proposal submission date.

2.5 MAILING REQUIREMENT FOR SPECIAL MARKING OF PROPOSAL DATA

Envelopes or other cover for material submitted in response to this RFP shall be opaque, and must be so presented that they may easily be identified. At a minimum, the outside cover for each phase must show:

- Destination of Proposal
- Name and location of project as described in the RFP documents
- Solicitation number
- Name and address of offeror
- Project phase and volume number

Submit the proposal in the format specified. Oral or telephonic proposals or modifications will not be considered.

Mail or deliver the proposal to the address listed on the Standard Form 1442, "Solicitation, Offer and Award."

3 EVALUATION OF PROPOSALS

a) All proposals and documentation, which have been properly submitted, will be evaluated. Two-phase design-build source selection procedures in FAR Subpart 36.3 will be used. Proposals will be evaluated by a team of Government staff to determine compliance with this solicitation (as a minimum) and to evaluate the quality of the proposed materials, methods, and procedures. Each of the evaluation Factors will be evaluated by the Government and a final overall rating for the proposals will be determined by consensus of the Government evaluation team. Proposals received will be evaluated on the basis of the factors stated in the solicitation to select the responsible Offeror whose proposal presents the best value and is most advantageous to the Government. Because of the number of proposals anticipated, uniformity of all proposals is essential to ensure fair and accurate evaluation. All proposals must comply with the instructions in the solicitation outlined and its supplements will be utilized.

b) The Government intends to evaluate Phase 1 proposals without discussions with Offerors. Only the most highly qualified firms ((AM#1) **no more than 4**) will be requested to submit proposals in Phase 2. The Government also reserves the right to enter into discussions if determined to be in the Government's best interests.

c) The Government reserves the right to evaluate Phase 2 proposals and make award without discussions. Therefore, the Offeror's Phase 2 proposal shall contain the Offeror's best terms from a cost or price and technical standpoint. The Government also reserves the right to enter into discussions if it is determined to be in the Government's best interest.

d) The Government will conduct evaluations in accordance with the Tradeoff Process in FAR Subpart 15.101-1. Volume I (Phase 1) and Volume II (Phase 2 excluding PRICE) will be rated using an adjectival rating with a narrative assessment. Volume III (PRICE) will not have an adjectival rating and will be evaluated separately after consensus evaluations of Volumes I and II have been completed. Proposal evaluation is an assessment of the proposal and the Offeror's ability to perform the resulting contract successfully. Proposals will be evaluated to determine ratings supported by narratives, and to identify strengths, weaknesses, and deficiencies of the proposed approach in each proposal.

e) Evaluation Definitions.

(1) Strength. A substantive aspect, attribute, or specific item in the proposal that exceeds the solicitation requirements and enhances the probability of successful contract performance.

(2) Weakness. A flaw in the proposal that increases the risk of unsuccessful contract performance. A significant weakness in the proposal is a flaw that appreciably increases the risk of successful contract performance.

(3) Deficiency. A material failure of a proposal to meet a Government requirement or a combination of significant weaknesses in a proposal that increases the risk of unsuccessful contract performance to an unacceptable level.

(4) Clarification. Clarifications are limited exchanges between the Government and Offerors that may occur when award without discussions is contemplated. If award without discussions is anticipated, Offerors may be given the opportunity to clarify certain aspects of their proposals or to resolve minor or clerical errors.

(5) Communications. Communications are exchanges between the Government and Offerors after receipt of proposals, leading to establishment of the competitive range.

(6) Discussions. Discussions are negotiations conducted in a competitive acquisition and take place after establishment of the competitive range. Discussions are tailored to each Offeror's proposal, and shall be conducted by the Contracting Officer with each Offeror within the established competitive range.

(7) Rating. The application of a scale of words, colors, or numbers, used in conjunction with narrative, to denote the degree to which the proposal has met the standard for a non-cost factor. For purposes of this solicitation, ratings will consist of words (adjectival method) used in conjunction with narratives. Ratings will be applied at the factor (tab) and subfactor level. If at any level of indentation an Offeror's proposal is evaluated as not meeting a minimum requirement (that is, below the level of Satisfactory), this fact must be included in the rating and narrative assessment at that level and each higher level of indentation. Therefore, a Marginal or Unacceptable rating at any level must be carried to the factor (tab) level. The following ratings will be used to evaluate Volume I and Volume II:

(i.) EXCELLENT: The offeror greatly exceeds the scope of the solicitation requirements in all aspects of the particular factor or sub-factor. The offeror also provides significant advantage(s) and exceeds the solicitation requirements in performance or capability in an advantageous way and has no apparent or significant weaknesses or omissions.

(ii.) ABOVE AVERAGE: The offeror exceeds the scope of the solicitation in most aspects of the particular factor or sub-factor. The offeror provides an advantage in key areas or exceeds performance or capability requirements, but has some areas of improvement remaining.

(iii.) HIGH AVERAGE: The offeror matches the scope of the solicitation in all aspects of the particular factor or sub-factor. The offeror does include an advantage in some but not all areas of performance or capability for this factor or sub-factor. There is room for improvement in this element.

(iv.) AVERAGE: The offeror matches the scope of the solicitation in most aspects of the particular factor or sub-factor. The offeror meets the performance or capability requirements of the element but not in a way advantageous to the Government. There is room for improvement in this element.

(vi.) POOR: The offeror does not meet the minimum scope of the solicitation for the particular factor or sub-factor. The offeror does not include any advantages and does not meet the minimal performance or capability requirements for this element. The offeror contains many apparent weaknesses and requires improvement.

(vii.) UNACCEPTABLE: The offeror fails to meet the scope of the solicitation in all aspects of the factor or sub-factor or has not submitted any information to address this evaluated item. The offeror does not include any advantages in any areas of the element and does not meet the minimum performance or capability requirements of this factor or sub-factor. The proposal includes large apparent weaknesses and the proposal will require extensive modifications to come into compliance with the minimum requirements of the solicitation.

4 RELATIVE IMPORTANCE OF EVALUATION FACTORS

4.1 RELATIVE IMPORTANCE OF PHASE 1 EVALUATION FACTORS

The evaluation factors in Phase 1 and their relative importance are listed in Table 1 PHASE 1 PROPOSAL FORMAT in Paragraph 2.2 PHASE 1 PROPOSAL FORMAT. The value of the factors is listed in the RELATIVE IMPORTANCE column. The subfactors within each factor are listed in descending order of importance.

4.2 RELATIVE IMPORTANCE OF PHASE 2 EVALUATION FACTORS

The evaluation factors in Phase 2 and their relative importance are listed in Table 2 PHASE 2 PROPOSAL FORMAT in Paragraph 2.3 PHASE 2 PROPOSAL FORMAT. The value of the factors is listed in the RELATIVE IMPORTANCE column. The subfactors within each factor are listed in descending order of importance.

4.3 RELATIVE IMPORTANCE OF VOLUMES

In the overall best value analysis, the technical factors in Volume II are significantly more important than those in Volume I. When combined, the technical ratings in Volume I and II are of approximately equal importance to the price factors in Volume III.

5 SUBMITTALS & EVALUATION

The requirements specified in the solicitation are minimum requirements. A more favorable evaluation rating will be given for exceeding the minimum requirements. A low evaluation rating for any factor, or combination of different factors, may cause the proposal to be evaluated unsatisfactorily.

6 PHASE 1 SUBMITTALS & EVALUATION

6.1 TAB 1 CONTRACTUAL DOCUMENTS – SUBMITTAL REQUIREMENTS

Documents submitted under Tab 1 CONTRACTUAL DOCUMENTS will consist of the items listed below. **Do not include the bid guarantee (i.e bid bond) or the Price Proposal Schedule as these are not required until Phase II:**

a) COVER LETTER: The Offeror will submit a cover letter containing:

- (1) Solicitation number.
- (2) Name, address, e-mail, and telephone and facsimile numbers of the Offeror.
- (3) Names, titles, e-mail, and telephone and facsimile numbers of persons authorized to negotiate on the Offeror's behalf with the Government in connection with this solicitation.
- (4) Name, title, and signature of the person authorized to sign the proposal.
- (5) Acknowledgement of all amendments to the solicitation (if applicable).
- (6) Standard Form 1442 shall be filled out and signed by a principal of the firm authorized to bind the design-build team. Signatures(s) must be in long hand.

b) SECTION 00600 “REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS”

Offers shall submit Section 00600 completed as appropriate.

c) BONDING STATEMENT

(1) The Offeror shall submit a signed statement from its proposed surety identifying the Offeror's maximum bonding capacity under the proposed contract. The successful Offeror will be required to submit performance and payment bonds for 100% of the task order amount immediately after award of individual task orders. For information purposes, the largest task order awarded under this contract is estimated to be approximately \$20.3 million although it is assumed that there will be overlapping task orders where the aggregate amount of the total work under contract may be as high as \$60 million. The letter shall reflect a minimum bonding capacity of \$60 million. See also Section 00700, PERFORMANCE AND PAYMENT BONDS and Section 00800, TASK ORDERS. Note: DO NOT SUBMIT ACTUAL PERFORMANCE AND PAYMENT BONDS WITH THIS PROPOSAL. This letter will not count towards the aforementioned page limitation.

(2) The Offeror shall explain how it will maintain sufficient bonding capacity with overlapping task orders occurring. It is anticipated that task orders will be issued on an annual basis. Depending on the Offeror's completion schedules that may range up to 18 months, task orders and bonding capacity between years will likely overlap. See also Section 00110, Paragraph PROGRAM MANAGEMENT PLAN.

6.2 TAB 1 CONTRACTUAL DOCUMENTS – EVALUATION

CONTRACTUAL DOCUMENTS is not part of the Source Selection Board (SSB) evaluation but rather will be used in evaluating the Offeror's responsiveness, conformance to the solicitation, and eligibility for award. Based on the information submitted, the Offeror will be either ACCEPTABLE OR UNACCEPTABLE. CONTRACTUAL DOCUMENTS will be evaluated as follows:

a) COVER LETTER

The cover letter will be used to ensure the Offeror acknowledges solicitation amendments. Otherwise, the cover letter provides information on the Offeror.

b) SECTION 00600 “REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS”

Section 00600 will be used to determine the Offeror’s business classification and responsiveness based on answers to representations, certifications, and other statements included in the solicitation.

c) BONDING STATEMENT

The Offeror must be capable of obtaining in the minimum bonding capacity to be considered for award. To be considered for award, the Offeror shall identify how it will maintain sufficient bonding capacity assuming overlapping task orders.

6.3 TAB 2 PERSONNEL – SUBMITTAL REQUIREMENTS

PERSONNEL consists of two subfactors: Design-Build Personnel and Letters of Commitment. Résumés shall be submitted in the following format.

Name/Title	
Proposed Duties & Functions Proposed Designer-of-Record: [Y] [N] for design discipline [_____] (Insert design discipline in blank space)	
Firm Affiliation/Years Affiliated	
Education: Degree Year Specialization	
Active Registrations (including dates) and/or Professional/Technical Certifications/Licenses	
Experience relevant to proposed project, including the years of experience performing proposed duties & functions. For each project listed below, identify the length of time key personnel stayed on their contracts and how well they managed their portion of the referenced contracts.	
Specific Qualifications relevant to proposed project	

<p>List of Relevant Projects: For each project listed, provide:</p> <ul style="list-style-type: none"> -- Project Title -- Project Description -- Type (D-B, Construction, etc.) -- Dollar Value -- Year Completed -- Individual's project assignment to include specific roles and responsibilities, dates worked on project, and project's relevance to this solicitation. -- Identify the length of time key personnel stayed on their contracts and how well they managed their portion of the referenced contracts. 	
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a) DESIGN-BUILD PERSONNEL

The Offeror shall submit the résumés on lead and support design, construction, and management personnel who will work on this project. Provide summaries of the duties and responsibilities of these individuals which clearly indicate the duties and responsibilities for each of the individuals. Key personnel identified in this tab shall be Contractor's senior working-level people who will be involved in design and construction on a day-to-day basis as opposed to departmental level supervisors or executives. Key personnel shall have experience in design and construction of housing projects similar to that of this Contract. Resumes shall list projects, identified in the subfactor DESIGN EXPERIENCE (Tab 3A), that show previous working relationships among key personnel. Minimum personnel qualifications are specified in Sections 01012 SUBMITTALS DURING DESIGN, Part 1 paragraph DESIGN AND CONSTRUCTION PERSONNEL QUALIFICATIONS; 01320 PROJECT SCHEDULE; 01430 DESIGN QUALITY CONTROL; and 01451 CONTRACTOR QUALITY CONTROL. The proposal shall clearly present the credentials of each person, and shall show that each meets the requirements listed in the Contract. Resumes shall include examples of project experience and educational qualifications. If reassignment of personnel is considered possible, provide the names and resumes of the alternate professionals in each assignment. The design-build team shall consist of the following, as a minimum:

Project Manager
 Lead Architect
 Landscape Architect
 Lead Civil Engineer
 Lead Structural Engineer
 Lead Mechanical Engineer
 Lead Electrical Engineer
 NACE Certified Corrosion Specialist
 Design Quality Control Manager
 Construction Quality Control Manager
 Project Superintendent
 Project Scheduler
 Surveyor
 Geologist/Geotechnical Engineer
 Early Childhood Play Specialist
 Industrial Hygienist

b) LETTERS OF COMMITMENT

In an appendix, provide letters of commitment for all key personnel on the Design-Build team and any proposed alternate personnel. By identifying these personnel, the offeror is making a commitment that, barring unforeseen circumstances, they are the personnel who will be assigned to the project. A letter of commitment from each firm committing specific individuals from the firm may be provided in lieu of separate letters for each individual. After contract award, substitutions for any of the key personnel or alternates shall require the Contracting Officer's approval.

6.4 TAB 2 PERSONNEL– EVALUATION

PERSONNEL contains two subfactors: Design-Build Personnel and Letters of Commitment. Design-Build Personnel is significantly more important than Letters of Commitment will be evaluated as Acceptable or Unacceptable. Personnel of primary teaming partners will be recognized and evaluated in the same manner as Personnel of the Offeror. PERSONNEL will be evaluated as follows:

a) DESIGN-BUILD PERSONNEL

Experience on similar housing projects, education, responsibilities/duties, and years of experience will be evaluated for the key construction personnel identified. Offerors with key design or construction personnel with prior experience on military housing construction projects and/or completion of design-build housing projects may receive a more favorable evaluation. Consideration will be given to sustainable design experience.

b) LETTERS OF COMMITMENT

Are letters of commitment for the duration of the Contract provided for each of the design-build team members provided?

6.5 TAB 3 EXPERIENCE (DESIGN & CONSTRUCTION) – SUBMITTAL REQUIREMENTS

EXPERIENCE (DESIGN & CONSTRUCTION) consists of two sub-factors: Design Experience and Construction Experience. List no more than 10 projects total for both subfactors. Each project example shall include:

- a. Project name and location
- b. Type of facility
- c. Identify type of contract (design, design/build, or construction)
- d. Description of the project and the area or experience the project demonstrates
- e. Construction contract award amount (estimated or actual);
- f. Final construction cost (if applicable);
- g. Date when the project was started;
- h. Original scheduled contract finish date
- i. Actual finish date (if finished)
- j. Overall size of facility (in square feet)
- k. Construction cost (excluding design costs)
- l. Duration of construction (excluding design time)
- m. Problems encountered and corrective actions taken

- n. Identify which proposed team members and/or firms were involved in the project; their specific roles and responsibilities on the project; and the extent of time they were involved with the project
- o. Relevance of experience to the solicitation project
- p. Was sustainable design used? If yes, indicate the certification level.
- q. If a government contract, include the contracting agency and contracting officer's name, telephone number, fax number, and email address (if known)
- r. All examples shall also contain the name, address, telephone and fax number of a representative of the customer (as well as one alternate individual affiliated with your firm) familiar with the Offeror's experience on the project that can verify the experience cited.

Joint Ventures: If offeror represents the combining of two or more companies for the purpose of this RFP, the proposal shall indicate whether the firms have experience working together in design/build ventures and for how long and how many projects. In addition, each company of this joint venture shall list their Government contract experiences.

a) DESIGN EXPERIENCE

Provide a list of projects currently underway or completed preferably within the last 5 years that best demonstrates the design experience of the design team (firms and/or individual team members) to successfully complete this facility using a design/build process. Experience beyond 5 years ago for design firms will be given less consideration than more recent experience. Projects shall indicate experience in one or more of the following categories:

- 1) Experience on Similar Housing Projects
Similar Housing Projects include residential family housing of single detached (3-bedroom) and duplex (2-bedroom) units and where the housing projects have a dollar value greater than \$10 million.
- 2) Design-Build Experience
- 3) Military Construction Design Experience
Military Construction design experience is considered to be experience on those projects constructed on and for military installations but may include projects for other Federal, State, or Local Government agencies.

The Offeror must clearly identify for which experience area(s) each project example pertains (e.g., Project A may qualify and be listed for similar housing projects, design-build, and military construction while Project B may qualify and be listed only for similar housing projects; etc.).

b) CONSTRUCTION EXPERIENCE

Provide a list of projects currently underway or completed preferably within the last 5 years that best demonstrates the construction experience of the construction team (firms and/or individual team members) to successfully complete this facility using a design/build process. An offeror must make clear the extent of involvement in those projects by current key personnel and clearly describe how the older project is similar to this project, considering changes in technology, materials, equipment, codes, etc. Projects shall indicate experience in one or more of the following categories:

- 1) Experience on Similar Housing Projects
Similar Housing Projects include residential family housing of single detached (3-bedroom) and duplex (2-bedroom) units and where the housing projects have a dollar value greater than \$10 million.
- 2) Design-Build Experience
- 3) Military Construction Design Experience

Military Construction experience is considered to be experience on those projects constructed on and for military installations but may include projects for other Federal, State, or Local Government agencies.

- 4) Experience at Dyess AFB or in Abilene, Texas.

The Offeror must clearly identify for which experience area(s) each project example pertains (e.g., Project A may qualify and be listed for similar housing projects, design-build, military construction, and experience at Dyess AFB or Abilene, Texas while Project B may qualify and be listed only for similar housing projects; etc.).

6.6 TAB 3 EXPERIENCE (DESIGN & CONSTRUCTION) – EVALUATION

EXPERIENCE (DESIGN & CONSTRUCTION) contains two subfactors that approximately equal: Design Experience and Construction Experience. Experience of primary teaming partners will be recognized and evaluated in the same manner as Experience of the Offeror. EXPERIENCE (DESIGN & CONSTRUCTION) will be evaluated as follows:

a) DESIGN EXPERIENCE

The offeror will be evaluated based on the recent experiences of the design team (firms and/or individual team members). The amount of consideration will depend upon the extent of the offeror's experience, similarity between previous project scopes of work and this project, and the relevance of the offeror's experience to this project. Experience in the following areas will be considered, in descending order of importance: Offerors may be evaluated more favorably where there is experience in more than one of the areas.

(1) Similar Housing Projects: A proposal offering Similar Housing Project experience through project examples under the prescribed parameters of this solicitation may be evaluated more favorably than those which demonstrate the experience in the other areas. Offerors may be evaluated more favorably based on: (i) a larger number of similar projects; (ii) more recent projects; or (iii) projects with a dollar value over \$10 million.

(2) Design-Build: No previous design-build team experience is necessary to qualify for award of this project; however, consideration will be given for recent, successful D-B team experience between the construction firm and design firms(s).

(3) Military Construction Design: Familiarity with federal regulations and administration of Corps of Engineers or other federal contracts are considered relevant. Corps of Engineer projects are considered more relevant than those of other Federal agencies, state, or local experience.

(4) Previous Experience As A Team. Extent to which members of the proposed team have worked together on previous projects as a team will be considered. Design team experience, construction team experience, and design-construction team experience are all considered relevant.

- (5) Sustainable design. Consideration will be given to the use of sustainable design.

b) CONSTRUCTION EXPERIENCE

The offeror will be evaluated based on the recent experiences of the construction team (firms and/or individual team members). The amount of consideration will depend upon the extent of the offeror's experience, similarity between previous project scopes of work and this project, and the relevance of the offeror's experience to this project. Experience in the following areas will be considered, in descending order of importance. Offerors may be evaluated more favorably where there is experience in more than one of the areas.

(6) Similar Housing Projects: A proposal offering Similar Housing Project experience through project examples under the prescribed parameters of this solicitation may be evaluated more favorably than those which demonstrate the experience in the other areas. Offerors may be evaluated more favorably based on: (i) a larger number of similar projects; (ii) more recent projects; or (iii) projects with a dollar value over \$10 million.

(7) Design-Build: No previous design-build team experience is necessary to qualify for award of this project; however, consideration will be given for recent, successful D-B team experience between the construction firm and design firms(s).

(8) Military Construction (MILCON) Design: Familiarity with federal regulations and administration of Corps of Engineers or other federal contracts are considered relevant. Corps of Engineer projects are considered more relevant than those of other Federal agencies, state, or local experience.

(9) Previous experience as a team. Extent to which members of the proposed team have worked together on previous projects as a team will be considered. Design team experience, construction team experience, and design-construction team experience are all considered relevant.

(10) Experience at Dyess AFB or in Abilene, Texas: Familiarity with Dyess AFB installation requirements and the local vicinity is considered relevant.

6.7 TAB 4 PAST PERFORMANCE (DESIGN & CONSTRUCTION) – SUBMITTAL REQUIREMENTS

PAST PERFORMANCE (DESIGN & CONSTRUCTION) consists of two subfactors: Past Performance and Health and Safety Record. Past performance of the offeror, subcontractors, consultants, and key individuals will be considered in evaluating past performance, utilizing information provided in the proposal and other information available to the Contracting Officer, including but not limited to the following: The following will be considered in descending order of importance:

a) PAST PERFORMANCE

Submit past performance information ratings, prepared by the clients, on projects identified in Tab 3 EXPERIENCE (DESIGN & CONSTRUCTION) – SUBMITTAL REQUIREMENTS, awards, letters, evaluations, or other forms of recognition that demonstrate your performance capabilities and customer satisfaction. If provided, this additional past performance information shall be relegated to an appendix and will not count towards the aforementioned page limitation:

- 1) For each design and/or construction firm on the project team, provide the firm's name, address, and DUNS number.

- 2) ACASS (A-E Contract Administration Support System) and CCASS (Construction Contract Administration Support System) Evaluations. ACASS evaluations will be utilized in evaluating the past performance on Corps of Engineers contracts for Architect-Engineering firms on the offeror's Design-Build team. CCASS evaluations will be utilized to evaluate past performance on Corps of Engineers contracts for construction firms on the offeror's Design-Build team.
- 3) Federal Agency Performance Evaluations
- 4) Contractor Performance Report From State and local governments and private sector clients. Submitted Contractor Performance Reports may be verified telephonically. References not supported by a Contractor Performance Report may be contacted in writing or telephonically to assess customer satisfaction.
- 5) Awards, letters, and other forms of recognition
- 6) All other information available to the Government

Provide the Architect-Engineer Contract Administration Support System (ACASS) or Construction Contractor Appraisal Support System (CCASS) Performance Evaluations you received on DOD Government design projects. Copies of records contained in the Corps of Engineers ACASS and CCASS Database may be requested by fax on company letterhead at the following telefax number: (503) 808-4596.

For Non-Corps References: For each non-Corps project listed under Tab 3 EXPERIENCE (DESIGN & CONSTRUCTION), offerors should send Client Authorization Letters and Contractor Performance Report (attached to the end of this Section) to each reference listed in the proposal to assist in the timely processing of the past performance evaluation. In an appendix, provide a copy of issued letters with the offeror's proposal.

New Companies: For new companies entering the marketplace (without relevant company experience) the quality of the past performance of their key management personnel of the Primary Design Construction Team and consultants will indicate the risk of good performance and become the basis of the past performance evaluation. Identifying how long key personnel stayed on their contracts and how well they managed their portion of the referenced contracts will be of great importance in the evaluation process.

b) HEALTH AND SAFETY RECORD

The Offeror shall submit OSHA Form 300 (AM#1) containing the Offeror's health and safety records for the previous five years. This form, in Microsoft Excel format, can be downloaded from the Internet at the address: http://www.ehso.com/OSHA_Forms.htm.

(AM#1) Using the data and the following formula, calculate the Incident Rate for each of the five years:

$$\frac{\text{Number of Lost Time Accidents for the year} \times 200,000}{\text{Man-hours Worked that Year}} = \text{Incident Rate for the Year}$$

Submit these incident rates with the OSHA Form 300 data.

NOTE: If the Offeror already has copies of the old OSHA Form 200, the data may be submitted on this form in lieu of on OSHA Form 300.

6.8 TAB 4 PAST PERFORMANCE (DESIGN & CONSTRUCTION) – EVALUATION

PAST PERFORMANCE (DESIGN & CONSTRUCTION) contains two subfactors that are listed in descending order of importance: Past Performance and Health And Safety Record. Past Performance of primary teaming partners will be recognized and evaluated in the same manner as Past Performance of the Offeror. PAST PERFORMANCE (DESIGN & CONSTRUCTION) will be evaluated as follows:

a) PAST PERFORMANCE

Past Performance ratings received on prior Government work and projects completed for Private Industry will be evaluated. Higher evaluation ratings may be awarded for Exceptional evaluations. In descending order, lower ratings may be given to evaluations of Below Average, Poor, and Unacceptable. If an Offeror has no past performance evaluations within the ACASS or CCASS database or Performance Summary sheets included in the proposal, a neutral rating will be awarded. The Government reserves the right to contact the evaluator on previous Government or private sector work to verify the Offeror's experience. The Government also reserves the right, but is not obligated, to query any Government agencies, databases, and publications for information such as performance evaluations, debarment, terminations, and litigation for evaluation purposes. The following will be considered in descending order of precedence:

- 1) For each design and/or construction firm on the project team, provide the firm's name, address, and DUNS number.
- 2) ACASS (A-E Contract Administration Support System) and CCASS (Construction Contract Administration Support System) Evaluations. ACASS evaluations will be utilized in evaluating the past performance on Corps of Engineers contracts for Architect-Engineering firms on the offeror's Design-Build team. CCASS evaluations will be utilized to evaluate past performance on Corps of Engineers contracts for construction firms on the offeror's Design-Build team.
- 3) Federal Agency Performance Evaluations
- 4) Contractor Performance Report From State and local governments and private sector clients. Submitted Contractor Performance Reports may be verified telephonically. References not supported by a Contractor Performance Report may be contacted in writing or telephonically to assess customer satisfaction.
- 5) Awards, letters, and other forms of recognition
- 6) All other information available to the Government

b) HEALTH AND SAFETY RECORD

Offerors who have minimal health and safety incident rates will receive a more favorable evaluation. (AM#1) **The five incident rates provided will be averaged. Offerors who have average incident rates averaging below 0.84 will be rated average or better. Offerors who have average incident rates averaging between 0.84 and 1.95 will be rated as Poor. Offerors who have average incident rates averaging over 1.95 will be rated unacceptable.**

c) NO RELEVANT PAST PERFORMANCE INFORMATION

In accordance with FAR 15.305, a neutral rating will be assigned to an Offeror who does not have a record of relevant past performance or for whom information on past performance is not available, such as new companies entering the marketplace (without relevant company experience). However, an Offeror may submit and be evaluated on past performance information regarding predecessor companies, key personnel who have relevant experience, consultants, or subcontractors who will perform major or critical aspects of the requirement when such information is relevant to the instant acquisition. Identifying how long key personnel stayed on their contracts and

how well they managed their portion of the referenced contracts will be of great importance in the evaluation process.

d) ADVERSE PAST PERFORMANCE INFORMATION

In accordance with FAR 15.306, the Government may initiate exchanges with an Offeror to clarify adverse past performance information when the Offeror has not previously had an opportunity to comment. Since discussions are not intended to occur in Phase 1, the Government may accomplish exchanges through clarifications prior to selecting the most highly qualified firms to submit proposals in Phase 2.

6.9 TAB 5 PROGRAM MANAGEMENT PLAN – SUBMITTAL REQUIREMENTS

The Offeror shall provide a comprehensive Program Management Plan detailing the overall management approach to this entire Housing Program (FY 03 – FY 13). The Program Management Plan shall clearly indicate how the Offeror has the ability to deliver quality housing units under the following constraints:

- 12 to 18 Month Construction Schedule.
- Task Orders issued annually.
- Approximately 85 housing units to be constructed per task order.
- Limitations of available local labor forces.

6.10 TAB 5 PROGRAM MANAGEMENT PLAN – EVALUATION

The Program Management Plan will be evaluated for inclusion of all tasks identified in the Program Management Plan submittal paragraph above. The requirements specified in the solicitation are considered to be minimum requirements. A more favorable evaluation rating may be given for exceeding the minimum requirements. The quality of the Offeror's plan to deliver a quality product under the constraints listed will be evaluated. Higher evaluation ratings can be achieved with a thoroughly explained Program Management Plan that illustrated that the Offeror has a firm understanding of the scope and complexity of this housing program.

6.11 TAB 6 PROJECT MANAGEMENT – SUBMITTAL REQUIREMENTS

a) PROJECT MANAGEMENT PLAN (PjMP)

The Offeror shall provide a comprehensive Project Management Plan (PjMP) developed specifically for implementation of the task orders for this Contract. The PjMP shall discuss the management approach used for design, site clearing and demolition, construction, turn-over of all housing units of the task order within the proposed schedule, and demolition of existing family housing in preparation for the next task order. The PjMP shall discuss phased turn-over of the finished housing units, when required by task order, and how it will be achieved within the proposed schedule. The information in the PjMP shall make it clear that the Offeror has the ability to deliver a quality product and effectively manage the designers, consultants, and subcontractors on the team, as well as the ability to coordinate all work throughout the design and construction phases. The PjMP shall include an explanation of the total project team management approach for both the design team and the construction team. It shall include: management of firms included within the design team and construction team, specific quality control procedures used (including Quality Control procedures to be used to limit re-submittals, design errors, and poor coordination between the design firm and design consultant), schedule development, and methods to be utilized to

adhere to the schedule. Address the acquisition of environmental permits in a timely fashion; safety; preparation and submission of record (i.e as-built) documents, and contract closeout. Discuss how the design team will support the Offeror during construction and an organizational chart showing the inter-relationship of management and various team components, including the Corps of Engineers and the Air Force. Address the relationship between designer and construction contractor and clearly indicate an understanding of the design-build process. In addition:

- (1) Identify the items of work to be self-performed by offeror and the percentage of the overall contract value that this work represents.
- (2) Describe the team's computer-aided drafting and design (CADD) capabilities. Identify the CADD software to be used in the design of this project; if all disciplines are not using the same CADD software, identify the software that each discipline is using. Discuss compatibility with the Government's target CADD and compliance with the Tri-Service A/E/C/ CADD standards. Explain how compatibility will be achieved if the design, or portion of the design, is prepared using a CADD system other than the Government's target CADD system. (Refer to Section 01012 SUBMITTALS DURING DESIGN for information on the Government's target CADD system and compatibility requirements.)

6.12 TAB 6 PROJECT MANAGEMENT – EVALUATION

PROJECT MANAGEMENT will be evaluated as follows:

a) PROJECT MANAGEMENT PLAN (PjMP)

Project Management Plans will be evaluated for inclusion of all tasks identified in the Project Management Plan submittal paragraph above. The ability of the Offeror's plan to deliver a quality product and effectively manage the construction team and coordinate all work throughout the design and construction phase of this project will be evaluated. Higher evaluation ratings can be achieved with a thoroughly explained Project Management Plan suitable for the scope and complexity of this housing project, and which addresses each of the following:

- Management Approach
- Sub-Contractor Management
- Quality Control Procedures
- Schedule development and adherence (Phased Turn-Over)
- Organization Chart
- Acquisition of Environmental Permits
- Safety
- Preparation and submission of record (i.e. as-built) documents
- Contract closeout
- What is the work that will be self-performed by the offeror and what is the percentage of the overall contract value that this work represents? This percentage will be compared to the minimum specified in Contract Clause 52.236-1 PERFORMANCE OF WORK BY THE CONTRACTOR.
- The team's computer-aided drafting and design (CADD) capabilities:
 - Is the CADD software to be used in the design of this project identified?
 - If all disciplines are not using the same CADD software, is the software that each discipline is using identified and which discipline will be responsible for the final set?
 - Is this software compatible with the Government's target CADD and in compliance with the Tri-Service A/E/C/ CADD standards?

- How will compatibility be achieved if the design, or portion of the design, is prepared using a CADD system other than the Government's target CADD system?

6.13 TAB 7 PAST PERFORMANCE (UTILIZATION OF SMALL BUSINESS CONCERNS) – SUBMITTAL REQUIREMENTS

a) SMALL BUSINESS

PAST PERFORMANCE (UTILIZATION OF SMALL BUSINESS CONCERNS) is **only applicable to large business concerns**. Small business concerns only need to state their business size classification based on the NAICS code and size standard in Section 00100 of the solicitation.

b) LARGE BUSINESS

PAST PERFORMANCE (UTILIZATION OF SMALL BUSINESS CONCERNS) will be evaluated to determine the Offeror's past performance in meeting small business goals for the following small business classifications: Small Business (SB), Small Disadvantaged Business (SDB), Women Owned Small Business (WOSB), HUBZone, and Severely Disabled Veteran Owned Small Business (SDVOSB). The Offeror shall submit data on its overall past performance in meeting small business goals on all Government contracts of a similar nature within the last 5 years containing FAR Clause 52.219-8, "Utilization of Small, Small Disadvantaged and Women-Owned Small Business Concerns" and FAR Clause 52.219-9, "Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan." The data to be provided shall account for each of the above small business classifications and include:

- (1) Client/Customer.
- (2) Contract/Identification Number.
- (3) Project Description.
- (4) Contract Amount.
- (5) Reference or Point of Contract (to include address and telephone number).
- (6) Official Documentation (Government contracts only) that may include:
 - (i.) Evidence of compliance checks by Government agencies such as Small Business Administration, Defense Contract Audit Agency, or U.S. Army Corps of Engineers.
 - (ii.) Standard Form 294 and Standard Form 295.
- (7) Other Relevant Documentation that may include citations, awards, letters of accommodation, etc. that demonstrate successful past performance in utilization of small business concerns.

6.14 TAB 7 PAST PERFORMANCE (UTILIZATION OF SMALL BUSINESS CONCERNS) – EVALUATION

a) SMALL BUSINESS

In accordance with FAR 15.305, small business concerns will receive the highest evaluating rating under Tab 7 PAST PERFORMANCE (UTILIZATION OF SMALL BUSINESS CONCERNS).

b) LARGE BUSINESS

Large Business Offerors will be formally evaluated to determine the Offeror's past performance in establishing and achieving realistic yet challenging goals on recent Government contracts of a similar nature. Offerors' who have recently established and achieved higher goals will be evaluated more favorably.

c) NO RELEVANT PAST PERFORMANCE INFORMATION

In accordance with FAR 15.305, a neutral rating will be assigned to an Offeror who does not have a record of relevant past performance or for whom information on past performance is not available, such as new companies entering the marketplace (without relevant company experience). However, an Offeror may submit and be evaluated on past performance information regarding predecessor companies, key personnel who have relevant experience, consultants, or subcontractors who will perform major or critical aspects of the requirement when such information is relevant to the instant acquisition.

d) ADVERSE PAST PERFORMANCE INFORMATION

In accordance with FAR 15.306, the Government may initiate exchanges with an Offeror to clarify adverse past performance information when the Offeror has not previously had an opportunity to comment. Since discussions will not occur in Phase 1, the Government may accomplish these exchanges through clarifications prior to selecting the most highly qualified firms to submit proposals in Phase 2.

7 PHASE 2 SUBMITTALS & EVALUATION

7.1 TAB 8 CONCEPT DESIGN – SUBMITTAL REQUIREMENTS

CONCEPT DESIGN consists of four subfactors: Building Design, Site Design, Supporting Data, and Number of Living Units.

a) BUILDING DESIGN

(1) Design Narrative. Provide a description of how the desired architectural character is achieved through the use of form, scale, and proportion. Indicate how materials are used to add pattern and definition to the design. Discuss the sensory perception and recognition of the physical elements as they are experienced sequentially in time as one approaches, enters, and moves through the order of spaces within the housing unit. Briefly discuss the functioning of activities within the housing unit spaces and the qualities of light, view, and acoustics. Discuss the material, material quality, equipment proposed, the energy efficiency of the materials and equipment, energy-saving features, the acoustical characteristics of the building envelope, selection of the locations for the ADA units, and each of the design disciplines' (architectural, civil, structural, mechanical, electrical, etc.) systems and the rationale for the selected systems, such as:

- a. Structural system and the rationale behind the selection of the proposed system, including identification of major structural materials and systems.
- b. Plumbing system and the rationale behind the selection of the proposed fixtures and equipment.
- c. Heating, Ventilation and Air Conditioning system and rationale behind the selection of the proposed system.
- d. Electrical system and the rationale behind the selection of the Interior power distribution systems and the rationale behind the selection of the proposed system, fixtures, and equipment. Identify electrical characteristics of power supply (phase, voltage, KVA). Provide

description of panels, protection devices and typical loading of circuits. Identify type of wire. Discuss housing communication systems (telephone, cable TV, etc.) and the rationale behind the selection of each system.

- e. Discuss maintenance and accessibility considerations in the selection and layout of the mechanical and electrical systems.

(2) Design Drawings.

(i.) Architectural Floor Plans – (Scale 1/8" = 1'-0"). Provide overall dimensions, room description, room dimensions and areas, appliances (including occupant-owned washer and dryer), plumbing fixtures and vanities, kitchen layout, door swings, typical furniture arrangements, garage features, patio, exterior bulk storage, service (trash) area, and furnace and hot water heater location. Identify types of materials and show all columns, partitions, openings, and roof overhangs.

(ii.) Exterior Elevations - (Scale 1/8" = 1'-0"). Provide drawings to present design intent, identify exterior materials, and show proposed detailing. Show all sides. Indicate door and window sizes and configurations, porches, decks, and exterior steps. Provide major horizontal and vertical dimensions.

(iii.) Typical Interior Elevations – (Scale 1/4" = 1'-0"). Kitchens and bathrooms.

(iv.) Building Section – (Scale 1/8" = 1'-0"). Provide a building section of the offeror's choice which illustrates the vertical relationship of all major building components, walls, floors, ceiling, and roofs. Identify materials and show foundations, porches, and decks as applicable. Explain how this section is either typical of all proposed family housing units or how other models may be different from the section shown.

(v.) Wall Section - (Scale 3/4" = 1'-0"). Provide a typical wall section showing foundation, wall composition, and floor and roof systems. Identify materials, finishes, thermal insulation, vapor protection, cavity and party walls, and wall fire and STC ratings.

(vi.) Finish and Equipment Schedules - Provide interior finish schedule for all rooms and door and window schedules. Include ceiling heights on the interior finish schedule. **DO NOT PROVIDE COLOR BOARDS.**

(vii.) Mechanical Floor Plan – (Scale 1/8" = 1'-0"). Provide floor plan indicating HVAC system layout, flues and location of plumbing vents and hot water heater. Indicate equipment efficiencies, active ventilation system, and other energy conservation features included in the proposal. (Note: This information may be shown on the unit electrical plans if it can be shown clearly.) Indicate room names.

(viii.) Electrical Floor Plan – (Scale 1/8" = 1'-0"). Indicate lighting fixture locations, properly labeled to show type of fixture.. Include a fixture schedule which indicates general fixture description, number and type of lamps, type of mounting, and any special features. Indicate switch locations, convenience outlet locations, smoke detector locations, telephone outlet locations, cable TV outlet locations, carbon monoxide detector locations, location of motors or special mechanical equipment, and location of unit load center panelboards. Include a electrical legend and notes, and room names.

(3) Use Net Floor Area Calculation Worksheet, and Kitchen Cabinet Size Calculation Worksheet, attached to this Section, in your proposal to support compliance with RFP criteria.

(4) Rendering. Provide one rendering of a typical unit, exterior view, in color, full size (24 inches by 36 inches).

b) SITE DESIGN

(1) Site Analysis Narrative. Provide a description of the basic site layout and the rationale behind the site design. Discuss the existing site conditions, proposed grading, paving, erosion control, storm drainage, utilities, and power distribution system and the rationale behind the design and selection of proposed systems, materials, and equipment. Discuss the electrical service to the site and the housing units. Identify type wire. Identify whether aerial or underground. In addition, address how the proposal accomplishes the Air Force neighborhood "Goal" through the five site development Objectives presented on page 25 of the Air Force Family Housing Guide, Chapter 3 - Neighborhood Design, paragraph Goals and Objectives (see Appendices). This shall be a comprehensive look at the new housing neighborhood including the follow-on phase of development. Also address environmental conditions, prevailing winds, solar effect, and the relationship of the site to the surrounding environment.

(2) Site Plans. Provide site plans at the following minimum detail providing information as below:

Drawing Type / Scale	Show This Information
Area Site Development Plan 1"=100'	<ul style="list-style-type: none"> • Spatial and functional arrangement of all family housing requirements • Adjacent land uses and streets • Project and Installation Boundaries • Finish contours at 2' intervals • Drainage features and water retention ponds (if utilized) • Vehicular and pedestrian circulation • Housing types to include patios and fencing • Children's outdoor play areas • Sidewalks and jogging paths • Illustrate site plan adaptability for expansion to the next phase of construction
Site Plan 1"=50'	<ul style="list-style-type: none"> • Layout for all site requirements. Show "Use Zones" in children's outdoor play areas • Landscaping and sodded and seeded areas • Utilities and utility entrance into housing unit walls • Existing Contours at 2' intervals • Finish contours at 2' intervals • Solar orientation of each housing unit or cluster • Vehicular and pedestrian circulation • Spacing between housing units • Children's play lots • Drawings shall be dimensioned to show building separations, set back, etc
Typical Tot Lot and other Recreational Facility Plan 1"=20'	<ul style="list-style-type: none"> • Indicate equipment placement, equipment types and plan of play surface • Provide schedule of play equipment/facilities for all play areas to be provided by the project

Drawing Type / Scale	Show This Information
Typical Landscape Planting Plan and Landscape Schedule 1"=20'	<ul style="list-style-type: none"> • Provide for Typical housing unit layouts, common areas, play facilities, etc • Provide Botanical/Common Names of plants used, size, and quantity of trees, shrubs, ground covers, related notes, and planting details • Provide schedule of total project landscaping and Turfing
Utility Plan 1"=50'	<ul style="list-style-type: none"> • All site utility requirements • Site lighting • Primary cable routing (new and existing) • Pad-mounted transformers and service laterals • Cable television and telephone routing • Sewer lines and manholes • Storm drain lines, inlets, structures • Water lines • Gas lines
Off-Site Electrical/Utility Plan 1"=200'	<ul style="list-style-type: none"> • Location of primary supply point of take-off. • Existing electrical lines to remain, both overhead and underground, properly identified. • Off site Storm drain line/discharge with grade information

c) SUPPORTING DATA

Product Literature. The Offeror shall fill out and submit the attached form titled: Construction Materials, Products, Equipment, and Systems to indicate specific make and model of the proposed materials, products, equipment, and systems. In addition, the Offeror shall provide product literature for all items listed in this attached form including manufacturer's descriptive literature, technical data, performance charts and curves, catalog cuts, etc. The technical data proposed shall meet the specific requirements contained in this Solicitation. Organize the product literature in accordance with CSI MasterFormat and provide a table of contents.

(1) **Recovered Materials.** Include information on the use of EPA designated items composed of recovered (recycled) materials. Indicate specific material and equipment being proposed by highlighting model numbers and specific types and grades of materials on the manufacturer's catalog cut / literature. Recovered Materials shall be used to the maximum extent practicable. Practicable being defined (per 40 CFR CH.1, 247.3) as capable of being used consistent with (a) performance in accordance with applicable specifications, and (b) availability at a reasonable price, availability within a reasonable period of time, and maintenance of a satisfactory level of competition. Provide a list of materials proposed on this project (see Section 01670A RECYCLED/RECOVERED MATERIALS).

(2) **Betterments and Enhancements.** The Offeror shall identify on this form all proposed Betterments (materials, products, equipment, systems, etc) that exceed the basic requirements of the solicitation.

This includes consideration of the items listed in the attached form and any other items furnished as part of the construction and delivery of the housing units. Any betterment included in the Offeror's proposal that is applicable to housing units shall be applicable for all the housing units. See Section 01000, Part 1 for list and priority of betterments.

(3) Deviations. The Offeror shall provide a list of all other deviations, deemed necessary by the Offeror, to achieve cost limitations, meet statutory requirements, and/or are mandatory due to technical flaws in the solicitation (i.e. performance, structural integrity, safety, maintainability, applicable code requirements, etc) in order to deliver the intended basic requirements of the solicitation. Each deviation shall include an explanation of why the Offeror believes the deviation is necessary.

d) NUMBER OF LIVING UNITS

All offerors are required to develop the site and all living unit plans to include the total 85 new living units. To ensure offerors can submit a proposal within funds available as set forth elsewhere in this Section, the Government will accept base bid proposals for fewer units with an option to award all units (see Section 01000 STATEMENT OF WORK). Offerors shall clearly identify on plan sheets which units are not in the base bid. The Government may reject proposals that exceed funds available.

7.2 TAB 8 CONCEPT DESIGN – EVALUATION

CONCEPT DESIGN contains four subfactors that are listed in descending order of importance: Building Design, Site Design, Supporting Data, and Number of Living Units. Minimum compliance with requirements set forth in the RFP will achieve an "Average" rating. To achieve a higher rating requires providing stated betterments (such as ceramic tile in lieu of vinyl composition tile), enhancements (features not specifically mentioned such as half basketball courts in common areas), larger than minimum size living units, higher quality design of living units or site layout, etc. Deviations that, in the Government's evaluation, negatively conflict with the solicitation requirements may be evaluated unfavorably or even result in rejection of the proposal as non-responsive. CONCEPT DESIGN will be evaluated as follows:

a) BUILDING DESIGN

This factor has the following subfactors that are listed in descending order of importance except that the first two are approximately equal:

(1) Exterior Architectural Design. This part of the evaluation assesses the aesthetic qualities of the building exteriors including variety in facades, roof lines, and entrances, interesting staggering of housing units, proportions of fenestration in relation to elevations, visual effects of garages on the housing units, shadow effects, materials, and textures, proportion and scale within the structure and other aesthetic considerations. The exterior renderings provided in the RFP are meant to guide the offeror in the architectural style desired at Dyess AFB.

(2) Interior Architectural Design. This part of the evaluation assesses the elements of planning and designing the family housing unit interiors. Consideration will be given to the livability, flexibility, functionality and individuality of the floor plans. Also, consideration will be given to the overall sensory perception of the physical elements of the design including qualities of light, view, and acoustics.

(3) Floor Area and Kitchen Cabinet Size. Evaluators will review the area calculations submitted with the proposal. Proposals which meet the minimum area limitations set forth in the Solicitation will be evaluated as "Average." Area added to the units must have demonstrable positive impacts on family life and well

being. The provision of additional square footage, in and of itself, does not require the awarding of additional consideration in this factor. The Offeror shall complete the Net Floor Area and Kitchen Cabinet area worksheets. Offerors are cautioned that Minimum and Maximum net areas as well as Minimum and Maximum gross areas must be carefully adhered to; non-compliance may result in rejection of the proposal as non-conforming.

(4) Building Thermal and Acoustical Envelope. This factor addresses the energy efficiency of the building structure design and the acoustical characteristics of the total building envelope.

b) SITE DESIGN

This factor has the following subfactors that are listed in descending order of importance:

(1) Site Utilization and Neighborhood Identity. This part of the evaluation addresses overall site design excluding utilities and how successfully the proposed family housing site design uses the principal of spatial “hierarchy” to create a sense of neighborhood identification for residents. The evaluation will look at the use of open space, street layout and pedestrian and vehicle circulation in relationship to individual homes, sub-neighborhoods and the neighborhood community. Consideration will be given to the following elements:

(i.) Neighborhood Concept and Layout: Street hierarchy (minimize housing on collector streets, etc), solar orientation, visual buffering, open space, separation of units, setbacks and integration of future housing development.

(ii.) Children’s Outdoor play Facilities. Evaluates the quality and quantity of play facilities.

(iii.) Pedestrian circulation and accessibility to recreation areas and within the neighborhood and surrounding area.

(iv.) Vehicle circulation: Occupant and service vehicle access considerations. This includes servicing the utilities located in the utility corridor as well as emergency vehicle access, mail delivery and trash pickup to units. Are traffic conflict points minimized and spacing between intersections maximized?

(2) Utilities and Drainage. This area of evaluation includes overall planning, layout, design and development of the site utility and drainage systems including the utility corridor. It embraces consideration of flexibility, maintenance, and accessibility. It includes evaluation of the design for the following systems: water distribution system; electrical system including site and street lighting, telephone and cable television; gas distribution system; and sanitary sewage system.

(3) Landscaping. This sub-factor evaluates the design, quality, quantity, and location of trees, shrubs, plantings, ground covers, and grass used to screen and enhance individual living units, streets and recreation areas. Considerations include screening, solar shading, decorative planting, plant material hardiness, plantings which screen between adjacent housing units, structures, and clusters to enhance privacy of the occupants. Number, size, type, and quality of trees and shrubs proposed are evaluated. Are foundation plantings provided as appropriate to meet low maintenance requirements? Are trees and shrubs used appropriately to define the open spaces? Are street trees provided in accordance with a street tree scheme for the hierarchy of streets in the area?

c) SUPPORTING DATA

This factor has the following subfactors which are listed in descending order of importance. Consideration will be given to the quality, durability, and degree and frequency of maintenance required for the equipment and materials proposed for the project based on the following elements:

(1) Housing Unit Exterior Materials. This part of the evaluation assesses the housing unit exterior construction materials and finishes.

(2) Housing Unit Interior Materials. This part of the evaluation assesses the housing unit interior construction materials and finishes.

(3) Housing Unit Mechanical Systems. This part of the evaluation assesses the housing unit mechanical systems including heating and air-conditioning, plumbing and ventilation.

(4) Appliances. This part of the evaluation assesses the quality and energy efficiency of all major appliances.

(5) Housing Unit Electrical Systems. This part of the evaluation assesses the housing unit electrical systems including power, lighting and communications.

(6) Site Equipment and Materials. This part of the evaluation assesses the quality of materials proposed for the project site development including civil, electrical and landscaping.

(7) Enhancements. Desirable proposal features not addressed by the RFP that are not categorized elsewhere in the evaluation system.

(8) Percentage of Recovered Material. Consideration will be given to the extent that EPA designated items are proposed for this project. The more materials offered, the higher the rating assigned.

d) NUMBER OF LIVING UNITS

The FY03 project (Task Order 1) was authorized for a total of 85 living units consisting of 36 two bedroom and 49 three bedroom units as set forth herein. However, to ensure offerors can submit a proposal within the funds available as set forth elsewhere in this solicitation, the Government will accept proposals for fewer units in the Base Bid with Option(s) at additional cost to award additional units. Offerors proposing to construct additional units as part of their base bid as a betterment will receive a higher evaluation than the “average” rating which will be given for providing the minimum number of units in the base bid. See Part 1 of Section 01000 STATEMENT OF WORK for minimum number of units to be constructed under the base bid.

7.3 TAB 9 PROJECT MANAGEMENT – SUBMITTAL REQUIREMENTS

PROJECT MANAGEMENT consists of two subfactors: Project Management Plan and Project Schedule.

a) PROJECT MANAGEMENT PLAN (PjMP)

The Offeror shall update the comprehensive Project Management Plan (PMP) furnished in Phase I and indicate (i.e. highlight) the changes specifically required for the first task order of this Contract.

b) PROJECT SCHEDULE

The Offeror shall provide a project schedule for design, site clearing and demolition, construction work for the first task order. Prepare in the form of a time-scaled (Gantt Chart) summary network diagram and graphically indicate sequences proposed to accomplish each general work operation including design and design reviews, site clearing and demolition, construction, phased turn-over of accepted units, final clean-up of premises, demolition of existing family housing in preparation for the next task order, and appropriate interdependencies among various activities. The schedule shall illustrate when finished units will be turned over in a phased manner. The proposed project

schedule shall clearly indicate the total number of calendar days from Notice to Proceed proposed for task order performance. The proposed completion time will be a contract requirement. If the Offeror fails to complete the work within the time specified, the Offeror will be subject to liquidated damages (if applicable).

The Offeror shall provide a verification statement that the Contractor has read the contract requirements and that the number of days includes all design time, Government review time of all design submittals, construction time, and demolition time necessary to complete the project. The duration shall reflect the design and design review requirements addressed in the Section 01012 SUBMITTALS DURING DESIGN.

7.4 TAB 9 PROJECT MANAGEMENT – EVALUATION

PROJECT MANAGEMENT consists of two subfactors that are listed in descending order of importance . PROJECT MANAGEMENT will be evaluated as follows:

b) PROJECT SCHEDULE

Schedule will be evaluated for inclusion of all tasks identified in the PROJECT SCHEDULE submittal paragraph above. Offerors who propose and substantiate schedules that result in a period of performance of meeting that specified in Section 01001 DESIGN AND CONSTRUCTION SCHEDULE and illustrate a schedule of the phased turnover of finished units will receive a more favorable evaluation. Shorter project schedules will be evaluated more favorably. A proposal that is unrealistic or unsupported will be evaluated unfavorably.

c) PROJECT MANAGEMENT PLAN (PjMP)

Changes to the Project Management Plan will be evaluated for inclusion of all tasks identified in Task Order No. 1.

7.5 TAB 10 UTILIZATION OF SMALL BUSINESS CONCERNS – SUBMITTAL REQUIREMENTS

a) DEFINITIONS

(1) Small Business Concerns. For the purpose of this section, small business concerns refer to Small Business, Small Disadvantaged Business, Women-Owned Small Business, HUBZone Small Business, and Service Disabled Veteran-Owned Small Businesses.

(2) Prime Contractor. For the purpose of this section, a prime contractor refers to both large and small contractors.

(3) Offeror. For the purpose of this section, Offeror refers to both large and small contractors.

(4) Floor. Floor is the term the U.S. Army Corps of Engineers uses to replace goal. It represents the minimum level for small business performance.

b) SMALL BUSINESS

Only large business concerns must submit information for Tab 9 UTILIZATION OF SMALL BUSINESS CONCERNS. Small business concerns shall state their business size classification based on the NAICS code and size standard in Section 00100 of the solicitation.

c) LARGE BUSINESS

UTILIZATION OF SMALL BUSINESS CONCERNS, which consists of 5 subfactors: Subcontracting Floors, Mitigation Efforts, Utilization of Small Business Concerns, Description of Subcontracted Supplies and Services, and Acknowledgements.

The Offeror (only if a large business) shall demonstrate how it plans to identify, commit, and utilize Small Business (SB), Small Disadvantaged Business (SDB), Women-Owned Small Business (WOSB), HUBZone, and Severely Disabled Veteran-Owned Small Business (SDVOSB) concerns as team members, subcontractors and/or suppliers in the performance of the resultant contract of this solicitation. It is the policy of the U.S. Army Corps of Engineers that small business concerns have the maximum practicable opportunity to participate meaningfully in contracts. It is further the policy of the U.S. Army Corps of Engineers that Offerors (large business only) demonstrate the extent they plan to utilize small business concerns in any resultant contract and provide assurance in its offer that small business concerns will have maximum subcontracting opportunities. The proposal shall clearly state factors that demonstrate a strong commitment to use small business concerns.

(1) Subcontracting Floors: The Offeror (only if a large business) shall develop and identify percentage floors based on planned subcontracting that is challenging yet realistic. The following floors are considered reasonable and obtainable for the resulting contract:

- (i.) 61.4% of planned subcontracting dollars to be placed with all small business concerns.
- (ii.) 9.1% of planned subcontracting dollars to be placed with those small business concerns owned and controlled by socially and economically disadvantaged individuals.
- (iii.) 5% of planned subcontracting dollars to be place with women-owned small business concerns.
- (iv.) 3% of planned subcontracting dollars to be place with service-disabled veteran-owned small business.
- (v.) 3% of planned subcontracting dollars to be place with HUBZone concerns.

(2) Mitigation Efforts: The Offeror (only if a large business) shall identify efforts that demonstrate its strategy to mitigate the effects of full and open competition on small business concerns. Specific examples of mitigation efforts via subcontracting include (but are not limited to):

- (i.) Teaming with small businesses.
- (ii.) Utilization of the Small Business Administration "PRO-NET" web site to research small business concerns (www.pronet.sba.gov).
- (iii.) Exceed the small business subcontracting floors stated above in the subfactor for SUBCONTRACTING FLOORS.
- (iv.) Apply small business subcontracting goals toward actual dollars awarded rather than a percentage of subcontracting dollars.
- (v.) Ensure original small business team members have substantial subcontracting opportunities and preferences throughout the life of the contract.
- (vi.) Assurances that all members of the Offeror's team understand the rules, regulations and procedures governing the review of subcontracting plan, subcontracting reporting, and subcontracting compliance audits.
- (vii.) Ensure periodic review small business subcontracting plan compliance.

(3) Utilization of Small Business Concerns: The Offeror (only if a large business) shall demonstrate utilization and participation of small business concerns (clearly stated factors that demonstrate strong commitments) as team members, subcontractors, and/or suppliers.

(4) Description of Subcontracted Supplies and Services: The Offeror (only if a large business) shall describe the supplies and services to be subcontracted and planned for subcontracting to SB, SDB, WOSB, SDVOSB, and HUBZone concerns.

(5) Acknowledgements

(i.) The Offeror (only if a large business) shall acknowledge: The Offeror will include FAR Clause 52.219-8, "Utilization Of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities. The Offeror will require subcontractors (including small business concerns) that receive subcontracts in excess of \$500,000 for supplies or services and \$1,000,000 for construction to adopt a small business participation program similar to the requirements of the resulting contract. The resulting subcontracting plan is a material part of the resulting contract. Therefore, failure to comply in good faith with the requirements of the subcontracting plan is in material breach of contract and can result in the Government assessing liquidated damages as stated in FAR Subpart 19.702.

(ii.) The Government may conduct comprehensive subcontracting compliance visits by the Contracting Officer (CO), Administrative Contracting Officer (ACO), and/or Small Business Administration.

(iii.) The Government may re-negotiate the subcontracting plan in the resulting contract if it is determined to be in the Government's best interests.

(iv.) The Government may negotiate subcontracting plans on individual task orders and apply goals/floors toward actual dollars awarded rather than a percentage of subcontracting dollars if it is determined to be in the Government's best interests.

(v.) The Offeror will twice annually (March and September) submit Standard Form 294, "Subcontracting Report for Individual Contracts" and Standard Form 295, "Summary Subcontract Report."

(vi.) The Offeror will include subcontracting plan compliance as an agenda item at periodic partnering meetings.

7.6 TAB 10 UTILIZATION OF SMALL BUSINESS CONCERNS – EVALUATION

a) SMALL BUSINESS

Small business concerns will receive the highest evaluating rating under TAB 9 UTILIZATION OF SMALL BUSINESS CONCERNS.

b) LARGE BUSINESS

Offerors will be formally evaluated under UTILIZATION OF SMALL BUSINESS CONCERNS which consists of 5 subfactors that are listed in descending order of importance:

(1) Subcontracting Floors: Offerors who propose subcontracting floors that exceed the suggested floors will receive a more favorable evaluation than Offerors with floors that merely meet the suggested floors.

(2) Mitigation Efforts: Offerors who demonstrate innovative and effective mitigation strategies in small business subcontracting will receive a more favorable evaluation than Offerors who merely meet the Government's minimum requirements.

(3) Utilization of Small Business Concerns: Offerors will be evaluated on their proposed utilization and participation of small business concerns as team members, subcontractors, and/or suppliers in the resulting contract. The Offeror's will be evaluated on its commitments that small business concerns will have maximum subcontracting opportunities. Enforceable commitments to use small business concerns will receive more favorable evaluations than non-enforceable commitments.

(4) Description of Subcontracted Supplies and Services: Offerors will be evaluated on their proposed utilization of supplies and services to be subcontracted and planned for subcontracting to SB, SDB, WOSB, SDVOSB, and HUBZone concerns. The Offerors will be evaluated on its commitments to utilizing supplies and services to be subcontracted and planned for subcontracting to SB, SDB, WOSB, SDVOSB, and HUBZone. Enforceable commitments to use small business concerns will receive more favorable evaluations than non-enforceable commitments.

(5) Acknowledgments: Offerors who acknowledge the Government's subcontracting compliance efforts will receive a favorable evaluation. Offerors who omit acknowledgements to the Government's subcontracting compliance efforts will receive a less favorable evaluation. Offerors who qualify their acknowledgements to the Government's subcontracting compliance efforts may receive a less favorable evaluation depending on the effect of the qualification.

The evaluation of TAB 9 UTILIZATION OF SMALL BUSINESS CONCERNS is separate and distinct from the requirement at FAR Clause 52.219-9, "Small Business Subcontracting Plan." The Small Business Subcontracting Plan will be submitted by the successful Offeror after the source selection is complete.

7.7 PRICE – SUBMITTAL REQUIREMENTS

Submittals for PRICE shall be in a **separate binder as labeled as Volume III** and consisting of the following:

a) COVER LETTER

The Offeror will submit a cover letter containing:

- (1) Solicitation number.
- (2) Name, address, e-mail, and telephone and facsimile numbers of the Offeror.
- (3) Names, titles, e-mail, and telephone and facsimile numbers of persons authorized to negotiate on the Offeror's behalf with the Government in connection with this solicitation.
- (4) Name, title, and signature of the person authorized to sign the proposal.
- (5) A statement specifying agreement with all terms, conditions provisions included in the solicitation.

(6) Deviations From the Solicitation: Offerors shall specifically identify, in a section entitled "DEVIATIONS," any significant deviations from the minimum solicitation requirements in Phase 2. All alternates shall be addressed and expanded upon in the appropriate tab in the proposal. This section is not intended for minute deviations and is separate from the deviation requirements in Section 00110, Tab 7C SUPPORTING DATA.

(7) Identification Of Items Exceeding Solicitation Requirements: Offerors shall list all significant items exceeding the minimum solicitation requirements in Phase 2. The list shall be entitled "IDENTIFICATION OF ITEMS EXCEEDING SOLICITATION REQUIREMENTS." All items listed shall be addressed and expanded upon in the appropriate tab in the proposal. This section is not intended for minute items exceeding requirements and is separate from the betterment requirement in Section 00110, Tab 8 c) SUPPORTING DATA.

b) STANDARD FORM 1442 AND PRICE PROPOSAL SCHEDULE

Offerors shall submit a Standard Form 1442 (SF 1442) with Blocks 14-20 completed, including acknowledging all amendments in Block 19 of the SF 1442. Offerors shall submit a completed PRICE PROPOSAL SCHEDULE.

c) BONDING

(1) The Offeror shall furnish a guarantee in the form of a firm commitment (e.g., bid bond). See Section 00100 INSTRUCTIONS TO OFFERORS, clause BID GUARANTEE.

c) AFFIRMATIVE ACTION PLAN

The Offeror shall provide an Affirmative Action Plan to ensure compliance with the provisions and clauses of this solicitation to promote the full realization of equal employment opportunity for all persons regardless of race, color, religion, sex or national origin. The plan shall list any debarment from Government contracts (including extensions or modifications) for failure to carry out personnel and employment policies in compliance with EO 11246 and the regulations of the Secretary of Labor. The Offeror shall also list any referrals of any matter arising under EO 11246 to the Department of Justice (DOJ) or to the Equal Employment Opportunity Commission (EEOC) for inappropriate civil or criminal proceedings.

7.8 PRICE – EVALUATION

The Cover Letter and SF 1442 will only be used in evaluating the Offeror's responsiveness, conformance to the Solicitation, and eligibility for award. Section 00010, Price Proposal Schedule, will be evaluated separately from other evaluation factors in Volumes I and II considering price reasonableness. A comparison of proposed price versus other price proposals and the Government Estimate will allow evaluation of price reasonableness.

a) AFFIRMATIVE ACTION PLAN

Affirmative Action Plans will be evaluated to ensure Offerors are in compliance with the equal employment opportunity provisions and clauses of the solicitation. Offerors who have no debarments, referrals, or other civil or criminal proceedings will receive a more favorable evaluation.

8 FUNDING

The Design and Construction Cost Limitation for the First Task Order of this Contract is specified in the PRICE PROPOSAL SCHEDULE.

9 COMPETITIVE RANGE

Upon completion of Phase 2 evaluations, and if discussions are determined to be necessary, the Government may establish a competitive range for the purpose of conducting discussions. The competitive range will be determined on the basis of the factors stated in the Solicitation and shall only include proposals that have a reasonable chance of being selected for award. Offerors submitting proposals determined outside of the competitive range (lacking a reasonable chance of being selected for contract award) will be notified in writing at the earliest practicable time.

10 FINAL PROPOSAL REVISIONS

The Government reserves the right to evaluate Phase 2 proposals and award a contract without discussions with Offerors. Therefore, the Offeror's proposal shall contain the Offeror's best terms from a cost or price and technical standpoint. The Government also reserves the right to enter into discussions if determined to be in the Government's best interests. Proposal revisions in Phase 2 (if required) will be received at the time and place established by the Contracting Officer and communicated to the Offerors in the competitive range. Changes to evaluated factors in the proposal revisions will be reviewed and evaluated.

11 SELECTION PROCEDURES

When combined, the technical factors in Volume I and II are of approximately equal importance to the price factors in Volume III. Evaluations from Volumes I, II, and III will be compared utilizing the Tradeoff Process in FAR Subpart 15.101-1 in which the Government may accept other than the lowest priced proposal that represents the best overall value to the Government. After a selection has been made, the Government will contact the selected Offeror, advising the selection. The Government may reject any or all offers if such action is determined to be in the best interests of the Government.

12 AWARD OF CONTRACT

The Government will award a contract resulting from this Solicitation to the responsible Offeror whose proposal conforms to the Solicitation, represents the best value of all factors considered, and is judged to be the most advantageous to the Government.

13 DEBRIEFING

In accordance with FAR Subpart 15.505 and 15.506, an Offeror may request either a pre-award or post-award debriefing in writing within three calendar days of notice of elimination from competition. Each Offeror is entitled to only one debriefing per acquisition. Debriefing of Offerors, successful or unsuccessful, will be conducted by the Contracting Officer. Release of source selection information after award will be the responsibility of Contracting Division in conjunction with Office of Counsel, and in accordance with the Freedom of Information Act.

14 PROPOSAL EXPENSES AND PRECONTRACT COSTS

This solicitation does not commit the Government to pay costs incurred in preparation and submission of initial and subsequent proposals or for other costs incurred prior to award of a formal contract.

15 RELEASE OF INFORMATION

After receipt of proposals and until contract award, source selection information will not be furnished to any firm.

PERFORMANCE SUMMARY SHEET (CONSTRUCTION)

SOLICITATION NUMBER DACA63-R-0017

Contractor's Name: _____

Project Name: _____

Project Location: _____

Name & Title of Person Completing this Summary _____

Name of Firm of Person Completing this Summary: _____

Signature of Person Completing this Summary: _____

Date: _____ Phone Number: _____

1. Overall Rating of this Contractor:

- ____ Excellent
- ____ Above Average
- ____ High Average
- ____ Average
- ____ Poor
- ____ Unacceptable

2. Cost Growth:

Original Construction Contract Award Amount: _____

Final Construction Contract Amount: _____

In your opinion, which of the following statement best describes your experience with cost growth on this project:

- ____ a. The contractor did not contribute to any cost growth.
- ____ b. The contractor contributed to some degree to the cost growth experienced on this project.
- ____ c. The contractor contributed significantly to the cost growth experienced on this project.

Any additional cost growth comments:

PERFORMANCE SUMMARY SHEET (Construction, Page 2 of 2)

SOLICITATION NUMBER DACA63-02-R-0017

3. Time Growth:

Original Contract Completion Date: _____

Final Contract Completion Date: _____

In your opinion, which of the following statement best describes your experience with time growth on this project:

- ____ a. The contractor did not contribute to any time growth.
- ____ b. The contractor contributed to some degree to the time growth experienced on this project.
- ____ c. The contractor contributed significantly to the time growth experienced on this project.

Any additional time growth comments:

4. Quality: Which of the following statements most accurately describe the quality of the work the contractor provided on your project:

- ____ a. The work provided by the contractor was of high quality.
- ____ b. The work provided by the contractor was of fair quality.
- ____ c. The work provided by the contractor was of poor quality.

Any additional comments on quality:

5. The willingness of past customers to have a contractor perform more work for them is an indication of overall satisfaction with the contractor's performance. If you were to construct another project similar to the one recently completed, and you had the responsibility and total authority to select the contractor for the new project, which of the following statements most accurately depicts the approach you would take?

- ____ a. I would have this contractor construct the new project.
- ____ b. I would consider this contractor, but I would also explore the possibility of using other contractors to construct the project.
- ____ c. I would not consider using this contractor to construct the new project.

6. Any additional comments (additional sheets may be added, if necessary):

PERFORMANCE SUMMARY SHEET (DESIGN)

SOLICITATION NUMBER DACA63-02-R-0017

Designer's Name: _____

Project Name: _____

Project Location: _____

Name & Title of Person Completing this Summary _____

Name of Firm of Person Completing this Summary: _____

Signature of Person Completing this Summary: _____

Date: _____ Phone Number: _____

1. Overall Rating of this Designer:

____ Excellent

____ Above Average

____ High Average

____ Average

____ Poor

____ Unacceptable

2. Cost Growth:

In your opinion, which of the following statement best describes your experience with cost growth on this project:

____ a. The designer did not contribute to any cost growth.

____ b. The designer contributed somewhat to the cost growth experienced on this project.

____ c. The designer contributed significantly to the cost growth experienced on this project.

Any additional cost growth comments:

PERFORMANCE SUMMARY SHEET Designers (Part 2)

SOLICITATION NUMBER DACA63-02-R-0017

3. Time Growth:

In your opinion, which of the following statement best describes your experience with time growth on this project:

- ☐ a. The designer did not contribute to any time growth.
- ☐ b. The designer contributed somewhat to the time growth experienced on this project.
- ☐ c. The designer contributed significantly to the time growth experienced on this project.

Any additional time growth comments:

4. Quality: Which of the following statements most accurately describe the quality of the work the designer provided on your project:

- ☐ a. The work provided by the designer was of high quality.
- ☐ b. The work provided by the designer was of fair quality.
- ☐ c. The work provided by the designer was of poor quality.

Any additional comments on quality:

5. The willingness of past customers to have a designer perform more work for them is an indication of overall satisfaction with the designer's performance. If you were to design/construct another project similar to the one recently completed, and you had the responsibility and total authority to select the designer for the new project, which of the following statements most accurately depicts the approach you would take?

- ☐ a. I would have this designer involved in the new project.
- ☐ b. I would consider this designer, but I would also explore the possibility of using other designers on this project.
- ☐ c. I would not consider using this designer on the new project.

6. Any additional comments (additional sheets may be added, if necessary):

NET FLOOR AREA CALCULATION WORKSHEET
(Page 1 of 2)

OFFEROR _____ UNIT TYPE _____

Exterior Wall Thickness: _____ inches

Gross Square Footage*: _____ SF (See Figures 4.2 & 4.3 of Air Force Family Housing Guide (Figure 4.1 has been superseded))

NET AREA* CALCULATIONS:

(*See Section 01000 STATEMENT OF WORK for the definitions of Gross and Net Areas.)

1. INTERIOR AREA (area within inside finishes of exterior walls):

Dimensions: _____ x _____ = _____ SF
_____ x _____ = _____ SF
_____ x _____ = _____ SF
TOTAL INTERIOR AREA SF = _____ SF

2. EXCLUDABLE AREA (if included in interior area above) (Dimensions to center line of enclosing interior partitions):

a. Utility Room:

Dimensions: _____ x _____ = _____ SF

b. Laundry Room (if not in utility room)

Dimensions: _____ x _____ = _____ SF

c. Washer and Dryer Space (if not already included in separate utility or laundry room. Allowable is 30 SF)

= _____ SF

d. Interior Bulk Storage Rooms: (do not include bedroom/bathroom closets and entry way closets)

Dimensions: _____ x _____ = _____ SF
_____ x _____ = _____ SF
_____ x _____ = _____ SF

NET FLOOR AREA CALCULATION WORKSHEET
(Page 2 of 2)

OFFEROR _____ UNIT TYPE _____

e. Furnace/Air Cond/DHW/Ductwork/Stacks (if not included in other excludable areas):

Dimensions: _____ x _____ = _____ SF

f. Greenhouse (if used in a passive solar design):

Dimensions: _____ x _____ = _____ SF

g. Stairway (to basement if included):

Dimensions: _____ x _____ = _____ SF

h. Unfinished attic space and basements; porches, open or screened; terraces and patios; garages; and other solar appurtenances (only if included in interior area calculations):

Dimensions: _____ x _____ = _____ SF

_____ x _____ = _____ SF

_____ x _____ = _____ SF

i. Additional space needed for handicap adaptability (as appropriate and only if not included in other excludable areas):

Dimensions: _____ x _____ = _____ SF

j. TOTAL EXCLUDABLE SPACE = _____ SF

3. Net Area (subtract 2.j. from 1.):

TOTAL NET AREA = _____ SF

(basic = _____ SF, maximum = _____ SF)

KITCHEN CABINET SIZE CALCULATION WORKSHEET

Page 1 of 1

OFFEROR _____ UNIT TYPE _____

	Provided	Required
Wall Cabinet	_____SF	_____SF
Base Cabinet	_____SF	_____SF
Drawer Area	_____SF	_____SF
Counter Top*	_____SF	_____SF
Percentage of Required Area	_____SF	_____SF

* Exclusive of area by sink and range.

CONSTRUCTION MATERIALS, PRODUCTS, EQUIPMENT, AND SYSTEMS

For **each** listed item of construction materials, products, equipment, and systems listed after this page, provide the following information. See attached sample form following the list of Construction Materials, Products, Equipment, and Systems:

A. Manufacturer, Grade, Type, Thickness, Finishes, Warranty Period, Model Number and any other information that will describe the item being provided. Only applicable information shall be provided. A standard form is attached (*may be edited as a Microsoft WORD file, location is on CD-ROM in folder "Guides", file name is "stdform.doc". Edit and print as many as needed for completion of TAB 7 c). Supporting Data*) that may be edited as appropriate for each category and item listed below. Submit one form for each item listed. The Contractor may generate an equivalent form that utilizes the same format as this standard form.

B. Manufacturer's Data Cut-Sheet and Proposal Reference Location Number for each item listed.

Identify any item that is considered a Betterment (Exceeds the requirements of the solicitation). This shall be noted in the information to be provided for each item and shall also be listed under Betterments item below.

Identify any item that is considered a Deviation to the requirements of the solicitation. This shall be noted in the information to be provided for each item and shall also be listed under Deviations item below.

1. HOUSING UNIT EXTERIOR MATERIALS AND FINISHES

Exterior Walls

Foundation System
Waterproofing System
Foundation Drainage System
Framing
Insulation (All Types)
Sheathing
Air Infiltration Barrier
Vapor Retarder Membrane
Siding
Fascia / Trim
Soffit
Exterior Paints
Doors and Hardware
Windows / Screens
Garage Doors

Roof

Framing
Vapor Retarder Membrane
Ice & Water Barrier
Sheathing
Insulation
Shingles
Attic Ventilation
Gutters & Downspouts

2. HOUSING UNIT INTERIOR MATERIALS AND FINISHES

Walls, Floors & Finishes

Concrete Floors on Grade
Framing
Structural Floor Decking
Doors and Hardware (All Areas)*
Stairs & Railings
Floor Covering (All Rooms)*
Wall & Ceiling Finish (Paint) – All Rooms*
Trim (All Rooms)*

* - A schedule may be provided for these items along with other required data.

Bathroom

Water Closets
Sinks
Faucets
Bathtub and/or Shower Enclosure
Vanities, Cabinets & Hardware
Accessories

Kitchen

Cabinets and Hardware
Sinks
Faucets
Counter Tops

3. SITE EQUIPMENT AND MATERIALS

Playground Equipment
Landscaping
Driveways
Sidewalks
Patios
Fencing
Water Distribution
Sanitary Sewer
Exterior Electrical Distribution
Gas Distribution
Street Lighting

4. HOUSING UNIT MECHANICAL SYSTEMS

Water Heater
Plumbing (Piping)
Heating (Furnace)
Air-Conditioning
Exhaust Systems
Ductwork

5. HOUSING UNIT ELECTRICAL SYSTEMS

Distribution Panel
Electrical Wiring
Lighting Fixtures (Each Type)
Communication Systems (Telephone & Cable T.V.)

6. APPLIANCES

Refrigerator
Range
Range Hood
Dish Washer
Garbage Disposal

7. RECOVERED MATERIALS

Provide a list of all proposed materials composed of recovered (recycled) materials

8. BETTERMENTS

Provide a list of Betterments (materials, products, equipment, systems, etc) that exceed the basic requirements of the solicitation. This includes consideration of the items listed above and any other items furnished as part of the construction and delivery of the housing units.

9. DEVIATIONS

Provide a list of all other deviations, deemed necessary by the Offeror, to achieve cost limitations, meet statutory requirements, and/or are mandatory due to technical flaws in the solicitation (i.e. performance, structural integrity, safety, maintainability, applicable code requirements, etc) in order to deliver the intended basic requirements of the solicitation. Each deviation shall include an explanation of why the Offeror believes the deviation is necessary. The Government believes the solicitation requirements are technically sound, comply with all statutory requirements, and are awardable within the specified cost limitation. Deviations that, in the Government's evaluation, negatively conflict with the solicitation requirements may be evaluated unfavorably or even result in rejection of the proposal as non-responsive.

****SAMPLE FORM****

CONSTRUCTION MATERIALS, PRODUCTS, EQUIPMENT, AND SYSTEMS

1. [HOUSING UNIT EXTERIOR MATERIALS AND FINISHES]

(Insert the title of Items 1 through 9 as applicable)

[EXTERIOR WALLS] (Insert the appropriate category as applicable)

FRAMING (Or appropriate item as applicable)

Manufacturer - Source	
Product Name	
Model Number	
Size – Capacity	
Grade – Type - Classification	
Use – Location	
Warranty - Period	
Description	
Recycled Content	
Other Characteristics	
Betterment (Yes/No/NA – Explain)	
Deviation (Yes/No/NA – Explain)	

End of Section

**SPECIAL NOTICE TO OFFERERS WITH REGARD TO SUBJECT PROJECT
SOLICITATION/AWARD AND THE SERVICE CONTRACT ACT AND DAVIS –BACON
ACT WAGE DETERMINATIONS (DECISIONS) INCORPORATED THEREIN:**

Please note that only those wage Decision/Rates applicable to Dyess Air Force Base (Taylor County), Texas have been incorporated within the solicitation/award. This action has been taken due to the preponderance of Delivery/Task Orders anticipated to be issued for those installations within this specific County under this solicitation/award.

In accordance with FAR 22.404-9. Award of Contract Without Required Wage Determination, if a Delivery/Task Order is issued for any area, within the geographic boundaries of the U.S. Army Corps of Engineers, other than those counties for which the applicable wage determinations have been incorporated – then that wage decision(s) will be incorporated by contract modification and contract pricing equitably adjusted.

APPLICATION OF WAGE DECISIONS

SOLICITATION NO: DACA63-02-R-0017
PROJECT: IDIQ FOR DESIGN-BUILD REPLACE
FAMILY HOUSING
LOCATION: DYESS AFB, TEXAS
TAYLOR COUNTY

1. Service Contract ACT (SCA) Wage Determination Number 94-2517, Revision 23, will be applicable to those activities performed installation support requirement for certain minor maintenance repairs, clerical support services, grounds maintenance, and landscaping or those services requiring the utilization of professional/service employees, i.e., Biologists, Agronomists, Environmentalists, Environmental Abatement, Computer Specialists, Architects/Engineers, Surveyors, and associated Technicians thereof of the profession/technical trades.

Note: Payroll records are not required to be submitted to the U.S. Army Corps of Engineers for work performed under the Service Contract Act (SCA). SCA payroll records are required to be kept by the Prime Contractor and available for review if requested , for a minimum of three years from the date of contract completion. Labor compliance will be monitored by the U.S. Department of Labor for SCA labor records.

2. Davis-Bacon Wage Decision TX020076, RESIDENTIAL BUILDING projects are those involving the construction, alteration, or repair of single family houses or apartment buildings of no more than four (4) stories in height. This includes all incidental items such as site work, storm drainage, roads and street lighting, privacy fencing, sidewalks, electrical distribution, gas & water distribution, sanitary sewer, turfing and landscaping, and demolition with asbestos abatement of like number of houses.

NOTE:

(1) CERTIFIED PAYROLL RECORDS ARE REQUIRED, UNDER THE DAVIS-BACON AND RELATED ACTS (DBRA), AND MUST BE SUBMITTED WEEKLY, TO THE U.S.ARMY CORPS OF ENGINEERS, FOR ALL CONSTRUCTION PERFORMED.

(2) THE CONTRACT NUMBER AND WAGE DECISION NUMBER APPLICABLE TO THE WORK PERFORMED FOR EACH CERTIFIED PAYROLL PERIOD, IS TO BE SHOWN (ANNOTATED) ON EACH AND EVERY CERIFIED PAYROLL RECORD SUBMITTED. MULTIPLE WAGE DECISION USAGE DURING ANY ONE-WORK PERIOD SHALL ALSO BE SO ANNOTATED TO THE CERTIFIED PAYROLL RECORD.

* Any questions Prospective Bidders may have with regard to Davis-Bacon Act Wage Decision Applicability must be addressed to the Fort Worth District Contracting Division Labor Relations Team at 1-800-443-7914.

WAGE DETERMINATION NO: 94-2517 REV (23) AREA: TX,NORTHWEST TEXASWAGE DETERMINATION NO: **94-2517** REV (23) AREA: TX,NORTHWEST TEXAS

REGISTER OF WAGE DETERMINATIONS UNDER

U.S. DEPARTMENT OF LABOR

FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL

WASHINGTON D.C. 20210

William W.Gross
DirectorDivision of
Wage Determinations**Wage Determination No.: 1994-2517****Revision No.: 23****Date Of Last Revision: 05/29/2002**

States: New Mexico, Oklahoma, Texas

Area: New Mexico Counties of Curry, Lea, Quay, Roosevelt, Union

Oklahoma Counties of Beaver, Cimarron, Texas

Texas Counties of Andrews, Armstrong, Bailey, Borden, Brewster, Briscoe, Brown, Callahan, Carson, Castro, Childress, Cochran, Coke, Coleman, Collingsworth, Comanche, Concho, Cottle, Crane, Crockett, Crosby, Dallam, Dawson, Deaf Smith, Dickens, Donley, Eastland, Ector, Fisher, Floyd, Foard, Gaines, Garza, Glasscock, Gray, Hale, Hall, Hansford, Hardeman, Hartley, Haskell, Hemphill, Hockley, Howard, Hutchinson, Irion, Jeff Davis, Jones, Kent, Kimble, King, Knox, Lamb, Lipscomb, Loving, Lubbock, Lynn, Martin, McCulloch, Menard, Midland, Mitchell, Moore, Motley, Nolan, Ochiltree, Oldham, Parmer, Pecos, Potter, Presidio, Randall, Reagan, Reeves, Roberts, Runnels, Schleicher, Scurry, Shackelford, Sherman, Stephens, Sterling, Stonewall, Sutton, Swisher, **Taylor**, Terrell, Terry, Throckmorton, Tom Green, Upton, Ward, Wheeler, Winkler, Yoakum, Young

****Fringe Benefits Required Follow the Occupational Listing****

OCCUPATION TITLE

MINIMUM WAGE RATE

Administrative Support and Clerical Occupations

Accounting Clerk I	7.71
Accounting Clerk II	8.42
Accounting Clerk III	10.52
Accounting Clerk IV	12.35
Court Reporter	13.99
Dispatcher, Motor Vehicle	11.74
Document Preparation Clerk	11.95
Duplicating Machine Operator	11.95
Film/Tape Librarian	10.84
General Clerk I	8.16
General Clerk II	9.17
General Clerk III	16.25
General Clerk IV	16.70
Housing Referral Assistant	14.92
Key Entry Operator I	6.86
Key Entry Operator II	8.70
Messenger (Courier)	7.68
Order Clerk I	9.34
Order Clerk II	10.22
Personnel Assistant (Employment) I	10.66
Personnel Assistant (Employment) II	11.97

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Personnel Assistant (Employment) III	16.57
Personnel Assistant (Employment) IV	16.79
Production Control Clerk	14.93
Rental Clerk	10.84
Scheduler, Maintenance	11.90
Secretary I	11.45
Secretary II	16.30
Secretary III	16.46
Secretary IV	18.29
Secretary V	20.26
Service Order Dispatcher	10.21
Stenographer I	10.44
Stenographer II	10.85
Supply Technician	16.25
Survey Worker (Interviewer)	13.39
Switchboard Operator-Receptionist	9.35
Test Examiner	15.39
Test Proctor	15.39
Travel Clerk I	8.54
Travel Clerk II	9.15
Travel Clerk III	9.73
Word Processor I	10.31
Word Processor II	12.90
Word Processor III	14.44
Automatic Data Processing Occupations	
Computer Data Librarian	10.33
Computer Operator I	9.21
Computer Operator II	11.74
Computer Operator III	15.77
Computer Operator IV	17.52
Computer Operator V	19.40
Computer Programmer I (1)	15.24
Computer Programmer II (1)	18.94
Computer Programmer III (1)	23.09
Computer Programmer IV (1)	27.94
Computer Systems Analyst I (1)	18.11
Computer Systems Analyst II (1)	22.70
Computer Systems Analyst III (1)	24.70
Peripheral Equipment Operator	10.76
Automotive Service Occupations	
Automotive Body Repairer, Fiberglass	17.49
Automotive Glass Installer	17.73
Automotive Worker	17.73
Electrician, Automotive	18.94
Mobile Equipment Servicer	15.35
Motor Equipment Metal Mechanic	20.11
Motor Equipment Metal Worker	17.73
Motor Vehicle Mechanic	20.38
Motor Vehicle Mechanic Helper	14.18
Motor Vehicle Upholstery Worker	16.56
Motor Vehicle Wrecker	17.73
Painter, Automotive	18.94
Radiator Repair Specialist	17.73
Tire Repairer	12.90
Transmission Repair Specialist	20.11
Food Preparation and Service Occupations	
Baker	8.74

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Cook I	7.72
Cook II	8.85
Dishwasher	6.28
Food Service Worker	6.78
Meat Cutter	11.06
Waiter/Waitress	6.71
Furniture Maintenance and Repair Occupations	
Electrostatic Spray Painter	16.47
Furniture Handler	10.26
Furniture Refinisher	16.47
Furniture Refinisher Helper	12.33
Furniture Repairer, Minor	14.40
Upholsterer	16.47
General Services and Support Occupations	
Cleaner, Vehicles	6.16
Elevator Operator	6.16
Gardener	7.10
House Keeping Aid I	6.13
House Keeping Aid II	6.16
Janitor	6.16
Laborer, Grounds Maintenance	6.79
Maid or Houseman	6.13
Pest Controller	9.07
Refuse Collector	7.10
Tractor Operator	8.14
Window Cleaner	6.79
Health Occupations	
Dental Assistant	10.93
Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	10.93
Licensed Practical Nurse I	10.65
Licensed Practical Nurse II	11.96
Licensed Practical Nurse III	13.37
Medical Assistant	9.77
Medical Laboratory Technician	10.79
Medical Record Clerk	11.24
Medical Record Technician	13.54
Nursing Assistant I	7.14
Nursing Assistant II	8.02
Nursing Assistant III	8.75
Nursing Assistant IV	9.82
Pharmacy Technician	12.19
Phlebotomist	11.96
Registered Nurse I	16.66
Registered Nurse II	20.40
Registered Nurse II, Specialist	20.40
Registered Nurse III	24.68
Registered Nurse III, Anesthetist	24.68
Registered Nurse IV	29.56
Information and Arts Occupations	
Audiovisual Librarian	12.67
Exhibits Specialist I	14.08
Exhibits Specialist II	17.17
Exhibits Specialist III	18.11
Illustrator I	14.08
Illustrator II	17.17
Illustrator III	18.11
Librarian	18.20

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Library Technician	12.28
Photographer I	11.14
Photographer II	15.63
Photographer III	16.46
Photographer IV	20.08
Photographer V	24.35
Laundry, Dry Cleaning, Pressing and Related Occupations	
Assembler	6.60
Counter Attendant	6.60
Dry Cleaner	7.94
Finisher, Flatwork, Machine	6.60
Presser, Hand	6.60
Presser, Machine, Drycleaning	6.60
Presser, Machine, Shirts	6.60
Presser, Machine, Wearing Apparel, Laundry	6.60
Sewing Machine Operator	8.37
Tailor	8.82
Washer, Machine	7.03
Machine Tool Operation and Repair Occupations	
Machine-Tool Operator (Toolroom)	16.47
Tool and Die Maker	24.00
Material Handling and Packing Occupations	
Forklift Operator	11.66
Fuel Distribution System Operator	13.35
Material Coordinator	16.25
Material Expediter	16.25
Material Handling Laborer	9.52
Order Filler	10.07
Production Line Worker (Food Processing)	12.60
Shipping Packer	8.91
Shipping/Receiving Clerk	8.91
Stock Clerk (Shelf Stocker; Store Worker II)	9.99
Store Worker I	8.29
Tools and Parts Attendant	10.25
Warehouse Specialist	12.60
Mechanics and Maintenance and Repair Occupations	
Aircraft Mechanic	17.49
Aircraft Mechanic Helper	12.33
Aircraft Quality Control Inspector	20.49
Aircraft Servicer	14.40
Aircraft Worker	15.42
Appliance Mechanic	16.47
Bicycle Repairer	12.90
Cable Splicer	18.97
Carpenter, Maintenance	16.47
Carpet Layer	15.42
Electrician, Maintenance	19.36
Electronics Technician, Maintenance I	17.23
Electronics Technician, Maintenance II	21.02
Electronics Technician, Maintenance III	22.35
Fabric Worker	14.40
Fire Alarm System Mechanic	17.49
Fire Extinguisher Repairer	13.35
Fuel Distribution System Mechanic	17.49
General Maintenance Worker	13.82
Heating, Refrigeration and Air Conditioning Mechanic	17.49
Heavy Equipment Mechanic	17.49

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Heavy Equipment Operator	17.49
Instrument Mechanic	17.49
Laborer	10.36
Locksmith	16.47
Machinery Maintenance Mechanic	17.72
Machinist, Maintenance	17.84
Maintenance Trades Helper	12.33
Millwright	17.49
Office Appliance Repairer	16.47
Painter, Aircraft	16.59
Painter, Maintenance	16.47
Pipefitter, Maintenance	17.49
Plumber, Maintenance	16.47
Pneudraulic Systems Mechanic	17.49
Rigger	17.49
Scale Mechanic	15.42
Sheet-Metal Worker, Maintenance	17.49
Small Engine Mechanic	15.42
Telecommunication Mechanic I	18.47
Telecommunication Mechanic II	19.55
Telephone Lineman	18.04
Welder, Combination, Maintenance	17.49
Well Driller	18.64
Woodcraft Worker	17.49
Woodworker	13.82
Miscellaneous Occupations	
Animal Caretaker	6.97
Carnival Equipment Operator	8.89
Carnival Equipment Repairer	7.76
Carnival Worker	6.73
Cashier	7.15
Desk Clerk	9.46
Embalmer	17.93
Lifeguard	9.42
Mortician	17.93
Park Attendant (Aide)	11.84
Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	8.56
Recreation Specialist	10.38
Recycling Worker	10.31
Sales Clerk	9.24
School Crossing Guard (Crosswalk Attendant)	5.90
Sport Official	9.42
Survey Party Chief (Chief of Party)	13.89
Surveying Aide	9.67
Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	13.26
Swimming Pool Operator	9.24
Vending Machine Attendant	8.95
Vending Machine Repairer	11.06
Vending Machine Repairer Helper	8.95
Personal Needs Occupations	
Child Care Attendant	8.60
Child Care Center Clerk	10.72
Chore Aid	5.91
Homemaker	13.16
Plant and System Operation Occupations	
Boiler Tender	17.49
Sewage Plant Operator	16.47

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Stationary Engineer	17.49
Ventilation Equipment Tender	12.33
Water Treatment Plant Operator	16.47
Protective Service Occupations	
Alarm Monitor	11.39
Corrections Officer	14.99
Court Security Officer	15.56
Detention Officer	14.99
Firefighter	14.97
Guard I	7.12
Guard II	9.58
Police Officer	18.63
Stevedoring/Longshoremen Occupations	
Blocker and Bracer	15.77
Hatch Tender	15.77
Line Handler	15.77
Stevedore I	14.72
Stevedore II	16.83
Technical Occupations	
Air Traffic Control Specialist, Center (2)	28.21
Air Traffic Control Specialist, Station (2)	19.46
Air Traffic Control Specialist, Terminal (2)	21.43
Archeological Technician I	13.01
Archeological Technician II	14.57
Archeological Technician III	18.03
Cartographic Technician	20.82
Civil Engineering Technician	18.03
Computer Based Training (CBT) Specialist/ Instructor	20.53
Drafter I	10.26
Drafter II	12.20
Drafter III	17.12
Drafter IV	18.03
Engineering Technician I	11.47
Engineering Technician II	11.95
Engineering Technician III	13.43
Engineering Technician IV	17.28
Engineering Technician V	21.09
Engineering Technician VI	25.57
Environmental Technician	15.24
Flight Simulator/Instructor (Pilot)	23.33
Graphic Artist	17.85
Instructor	17.58
Laboratory Technician	13.72
Mathematical Technician	18.03
Paralegal/Legal Assistant I	15.44
Paralegal/Legal Assistant II	15.81
Paralegal/Legal Assistant III	19.34
Paralegal/Legal Assistant IV	23.40
Photooptics Technician	16.85
Technical Writer	21.27
Unexploded (UXO) Safety Escort	17.93
Unexploded (UXO) Sweep Personnel	17.93
Unexploded Ordnance (UXO) Technician I	17.93
Unexploded Ordnance (UXO) Technician II	21.70
Unexploded Ordnance (UXO) Technician III	26.01
Weather Observer, Combined Upper Air and Surface Programs (3)	13.66
Weather Observer, Senior (3)	15.17

ACCOMPANYING AMENDMENT NO. 0001 TO SOLICITATION NO. DACA63-02-R-0017

Weather Observer, Upper Air (3)	13.66
Transportation/ Mobile Equipment Operation Occupations	
Bus Driver	12.56
Parking and Lot Attendant	5.86
Shuttle Bus Driver	8.15
Taxi Driver	7.84
Truckdriver, Heavy Truck	12.51
Truckdriver, Light Truck	9.21
Truckdriver, Medium Truck	12.07
Truckdriver, Tractor-Trailer	12.51

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.15 an hour or \$86.00 a week or \$372.67 a month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 8 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

(1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)

(2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

(3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges. A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and

hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**** NOTES APPLYING TO THIS WAGE DETERMINATION ****

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444(SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(s) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to

which a class(s) is to be conformed. The process for preparing a conformance request is as follows:

(1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).

(2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(s) of employees performs any contract work.

(3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of regulations 29 CFR Part 4).

(4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.

(5) The contracting officer transmits the Wage and Hour decision to the contractor.

(6) The contractor informs the affected employees. Information required by the Regulations must be submitted on SF 1444 or bond paper. When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

GENERAL DECISION TX020076 03/01/02 TX76

General Decision Number TX020076

Superseded General Decision No. TX010076

State: TEXAS

**Construction Type:
RESIDENTIAL**

Counties:

CALLAHAN	FISHER	STEPHENS
EASTLAND	JONES	TAYLOR
ERATH	NOLAN	YOUNG

RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	03/01/2002

COUNTIES:

CALLAHAN	FISHER	STEPHENS
EASTLAND	JONES	TAYLOR
ERATH	NOLAN	YOUNG

SUTX4011A 12/01/1982

	Rates	Fringes
AIR CONDITIONING MECHANICS	8.00	
BRICKLAYERS	9.00	
CARPENTERS	8.02	
CEMENT MASONS	6.00	
ELECTRICIANS	9.375	
INSULATORS	7.50	
LABORERS	5.15	
PAINTERS	8.00	
POWER EQUIPMENT OPERATORS:		
Dozers	5.15	
Rollers	5.625	
Tractors	5.15	
PLUMBERS	9.00	
ROOFERS	7.00	
SHEET METAL WORKERS	6.00	
TILE SETTERS	7.785	
TRUCK DRIVERS	5.75	

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively

bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * An existing published wage determination
- * A survey underlying a wage determination
- * A Wage and Hour Division letter setting forth a position on a wage determination matter
- * A conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

ABILENE, TX, SMSA AREA

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (APR 1984) (FAR 52.222-23D) (DEVIATION)

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

<u>Goals for minority participation for each trade</u>	<u>Goals for female participation for each trade</u>
11.6%	6.9%

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs Office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance Programs, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the--

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract; and
- (5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is: the City of Abilene, TX, and the Counties of Callahan, Jones, and Taylor, TX.

SECTION 00800**SPECIAL CONTRACT REQUIREMENTS (SCR)
(AMENDMENT NO. 0001)**

Due to the recent conversion from the Standard Army Automated Contracting System (SAACONS) to the new Department of Defense's Standard Procurement System, Procurement Desktop Defense (PD²), the following clauses and other specific contract requirements you may have been accustomed to seeing in Section 0800, Special Contract Requirements, have been moved. The following chart represents those changes.

CLAUSES & OTHER REQUIREMENTS PREVIOUSLY LOCATION IN SECTION 00800		NEW LOCATION
FAR Clauses		
Commencement, Prosecution And Completion Of Work (Apr 1984)	52.211-10	Section 00700
Time Extensions (Apr 1984)	52.211-13	Section 00700
Variation In Estimated Quantity (Apr 1984)	52.211-18	Section 00700
Limitations On Subcontracting (Jan 1991)	52.219-14	Section 00700
Availability Of Funds (Apr 1984)	52.232-18	Section 00700
Availability And Use Of Utility Services (Apr 1984)	52.236-14	Section 00700
Quantity Surveys (Apr 1984)	52.236-16, Alternate I	Section 00700
DFARS Clauses		
Payment For Mobilization And Preparatory Work (Dec 1991)	252.236-7003	Section 00700
Payment For Mobilization And Demobilization (Dec 1991)	252.236-7004	Section 00700
Airfield Safety Precautions (Dec 1991)	252.236-7005	Section 00700
EFARS Clauses		
Equipment ownership and operating expense schedule	52.231-5000	Section 00700
Payment for materials delivered off-site	52.232-5000	Section 00700
Basis for Settlement of Proposals	52.249-5000	Section 00700
Other Specific Contract Requirements		
Time Extensions For Unusually Severe Weather (Oct 1989)		Section 01000
Payment For Utility Services (FAR 36.303(C)(6))		Section 01000
Superintendence Of Subcontractors		Section 01000
Coordination Of Construction With Cemetery Representatives		Section 01000
Damage To Work Alternate A/Alternate B		Section 01000

The clauses represented here may not be included in a particular solicitation, depending on the requirements. This list only represents changes made to the overall policy of clause location.

CORRESPONDENCE IDENTIFICATION

- a. The Contractor shall use a serial numbering system on all formal correspondence sent to the Contracting Officer or his representative. The Contractor will provide one original and two duplicate copies of all correspondence.
- b. The Contractor may use a Request for Information (RFI) system for drawing/specification clarifications, subject to the following conditions:
 1. The Contractor shall use a sequential numbering system for all RFI's separate and apart from the correspondence numbering system.
 2. The Contractor shall provide one original and two copies of all RFI's.
 3. The Contractor shall designate ONE individual responsible person, subject to approval by the Contracting Officer, for reviewing and issuing RFI's.

4. For projects requiring Network Analysis Systems (NAS), all RFI's shall identify the NAS activities directly or indirectly affected by the RFI on the progress schedule. The Contractor should anticipate a minimum of 10 calendar days for Government review and response.
5. No requests for deviations or variations from the contract by RFI will be allowed. Deviations/variations are to be submitted on ENG Form 4025 as described in Section 01330 Submittal Procedures.
6. The use of RFI's does not relieve the Contractor of the responsibility for reviewing the contract documents and coordinating the work to be performed. If the Contracting Officer determines that the RFI system is being used for other than its intended purpose, the Contracting Officer has the authority to discontinue the use of the RFI's for the remainder of the contract.

EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

Whenever a contract or modification of contract price is negotiated, the Contractor's cost proposals for equipment ownership and operating expenses shall be determined in accordance with the requirements of EFARS 52.231-5000, EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE. Interested parties may purchase copies of EP 1110-1-8 (Volumes 1 through 12) by phoning (202) 783-3238, or by writing "Superintendent of Documents U.S. Government Printing Office, Washington, D.C. 20402." Major credit cards are accepted. An electronic copy of this publication may be found the US Army Corps of Engineers Publication web site at <http://www.usace.army.mil/inet/usace-docs/eng-pamphlets/cecw.htm>.

PHYSICAL DATA (APR 1984) (FAR 52.236-4)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

- a. The physical conditions indicated on the drawings and in the specifications are the result of site investigations by surveys.
- b. Ground water levels

It has been observed that ground water levels in heavily timbered or grassed areas quite often undergo a significant temporary rise when the area is cleared and/or stripped. This increase in water level can hinder traffic and construction progress in the affected areas. The duration of the ground water rise varies considerably, depending on prevailing weather and/or climatic conditions. Ref: Yearbook of Agriculture, 1957, copy available for inspection in Fort Worth District Office.

- c. Point of delivery for Government-furnished property

See Section 01640 GOVERNMENT-FURNISHED PROPERTY.

REQUIRED INSURANCE

Pursuant to FAR 28.307-2, the Contractor shall procure and maintain during the entire period of his performance under this contract the following minimum insurance:

- a. Workers' compensation and employers' liability insurance in compliance with applicable state statutes, with a minimum employers' liability coverage of \$100,000.
- b. Comprehensive general liability insurance for bodily injury in the minimum limits of \$500,000 per occurrence. No property damage liability insurance is required.

- c. Comprehensive automobile liability insurance covering the operation of all automobiles used in connection with the performance of the contract in the minimum limits of \$200,000 per person and \$500,000 per occurrence for bodily injury and \$20,000 per occurrence for property damage. (See Contract Clause entitled Insurance--Work on a Government Installation)

HAZARDOUS MATERIALS ABATEMENT INSURANCE

- a. If hazardous materials (e.g. asbestos, lead-based paint, polychlorinated biphenyl (pcb) compounds) abatement/removal or any other work with hazardous materials is required under this contract and Comprehensive General Liability Insurance is required, the policy of insurance which covers the hazardous materials abatement/removal or other work with asbestos shall be a "per occurrence" policy as that term used in the insurance industry. A policy issued on a "claims made" basis or any other "short tail" basis will not be accepted.
- b. The Comprehensive General Liability per occurrence policy shall be obtained by the prime Contractor if the hazardous materials abatement work is performed by the prime Contractor's own work force, or by an hazardous materials abatement subcontractor(s), if the hazardous materials abatement work is subcontracted. The Contractor shall insert in the subcontract a requirement for the hazardous materials abatement subcontractor(s) to provide and maintain the insurance required by this paragraph. The Contractor shall maintain a copy of the subcontractor's proof of required insurance, and shall make such copy available to the Contracting Officer upon request.

SALVAGE MATERIALS AND EQUIPMENT (AIR FORCE)

- a. The Contractor shall maintain adequate property control records for all materials or equipment specified to be salvaged. These records may be in accordance with the Contractor's system of property control, if approved by the property administrator. The Contractor shall be responsible for the adequate storage and protection of all salvaged materials and equipment and shall replace, at no cost to the Government, all salvage materials and equipment which are broken or damaged during salvage operations as the result of his negligence, or while in his care.
- b. In consideration for credit allowed in the contract price, the title to all scrap and salvage generated as a direct result of this contract is vested in the Contractor unless specifically excepted. The scrap and salvage shall be disposed of off the Base by the Contractor.

U.S. ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1

Reference Federal Acquisition Regulation (FAR) Clause 52.236-13, Accident Prevention. Engineer Manual (EM) 385-1-1 and its changes are no longer available as part of this solicitation/contract but rather is available at <http://www.hq.usace.army.mil> (select Safety and Occupational Health). Consequently, the Contractor shall be responsible for complying with the current edition and all changes posted on the web as of the effective date of this solicitation.

MINIMUM GUARANTEED AMOUNT QUALIFICATION

The Contractor shall be paid a Guaranteed Minimum of (AM#1) \$500,000, only if work equal to or exceeding the Guaranteed Minimum is not ordered in the based year of the contract and (AM#1) \$250,000 for each option period exercised. Funds other than the stated Guaranteed Minimum shall be obligated by issuance of individual delivery orders and not by the this contract.

The appropriate military/civil fund availability evidence shall be cited on each delivery order issued under the contract. The aggregate total of all delivery orders issued hereunder shall not exceed (AM#1) \$160,000,000 during the base period and/or any option period under this contract.

ELECTRONIC SUBMITTAL OF OFFEROR'S PROPOSAL

In accordance with (AM#1) **Section 00110 PROPOSAL SUBMISSION AND EVALUATION**, the Offeror is required to submit an electronic copy of the initial proposal and one electronic copy of the final proposal revision, if applicable. In the event any discrepancy is discovered between the printed version of the offeror's submitted proposal and this electronic version, the printed version shall govern.

DESIGN-BUILD CONTRACT-ORDER OF PRECEDENCE - AUG 1997

- a. The contract includes the standard contract clauses and schedules current at the time of award. It also entails:
(1) the solicitation in its entirety, including all drawings, cuts and illustrations, and any amendments during proposal evaluation and selection, (2) the successful Offeror's accepted proposal, and (3) the Government-accepted, Contractor-approved (100%) construction documents. The contract constitutes and defines the entire agreement between the Contractor and the Government. No documentation shall be omitted which in any ways bears upon the terms of that agreement.
- b. In the event of conflict or inconsistency between any of the provisions of the various portions of this contract, precedence shall be given in the following order:
 1. Contractor-identified, Government-accepted deviations, including betterments, to the Solicitation (i.e. "Request for Proposals").
 2. The Solicitation, including all amendments (See also Contract Clause: SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION).
 3. All other provisions of the accepted proposal.
 4. Government-accepted, Contractor-approved final (100%) construction documents, as defined in Section 01012 SUBMITTALS DURING DESIGN.
 5. Any design products, including but not limited to drawings, specifications, engineering studies and analyses, shop drawings, equipment installation drawings, etc. Design products must conform to all provisions of the contract, in the order of precedence herein.

Failure of any of the reviews to identify a proposed level of quality of systems, equipment or materials that does not meet the minimum criteria of the Request for Proposal documents does not relieve the Contractor of these requirements. If the Government-accepted, Contractor-approved final (100%) construction documents specify a level of quality of systems or materials that exceed any that are specified in the Request for Proposal documents (i.e. betterments), then these new levels shall become the new minimum level of quality requirements. The new minimum requirements shall not be lowered or changed without written Government approval. Changes to Government-accepted, Contractor-approved final (100%) construction documents shall not be made without the Contracting Officer's knowledge and acceptance.

PROPOSED BETTERMENTS – AUG 1997

- a. The minimum requirements of the contract are identified in the Request for Proposal. All betterments offered in the proposal or the Government-accepted, Contractor-approved final (100%) construction documents become a requirement of the awarded contract, unless specifically excluded.
- b. “Betterment” is defined as any material, equipment, component, or system, which exceeds the minimum requirements, stated in the Request for Proposal. This includes all proposed betterments listed in accordance with the “Proposal Submission Requirements” of the Solicitation, and all Government identified betterments, and those included on any of the Government-accepted, Contractor-approved final (100%) construction documents.
- c. “Government identified betterments” include the betterments identified on the “List of Accepted Project Betterments” prepared by the Proposal Evaluation Board and made part of the contract by alteration, and all other betterments identified in the accepted Proposal after award.

KEY PERSONNEL, SUBCONTRACTORS AND OUTSIDE ASSOCIATES OR CONSULTANTS –AUG 1997

In connection with the services covered by this contract, any in-house personnel, subcontractors, and outside associates or consultants will be limited to the individuals or firms that were specifically identified and agreed to during negotiations. The contractor shall obtain the Contracting Officer’s written consent before making any substitution for these designated in-house personnel, subcontractors, associates, or consultants.

RESPONSIBILITY OF THE CONTRACTOR FOR DESIGN - FEB 2000

- a. The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other non-construction services furnished by the Contractor under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiency in its designs, drawings, specifications, and other non-construction services and perform any necessary rework or modifications, including any damage to real or personal property, resulting from the design error or omission.
- b. Neither the Government’s review, approval or acceptance of, nor payment for, the services required under this contract shall be construed to operate as a waiver of any rights under this contract or of any cause of action arising out of the performance of this contract. The Contractor shall be and remain liable to the Government in accordance with applicable law for all damages to the Government caused by the Contractor’s negligent performance of any of these services furnished under this contract.
- c. The rights and remedies of the Government provided for under this contract are in addition to any other rights and remedies provided by law.
- d. If the Contractor is comprised of more than one legal entity, each entity shall be jointly and severally liable thereunder.

WARRANTY OF CONSTRUCTION WORK – AUG 1997

- a. In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph (i) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier.

- b. This warranty shall continue for a period of 1 year from the date of final acceptance of the work. If the Government takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the Government takes possession.
- c. The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Government-owned or controlled real or personal property, when that damage is the result of--
 - 1. The Contractor's failure to conform to contract requirements; or
 - 2. Any defect of equipment, material, or workmanship.
- d. The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for 1 year from the date of repair or replacement.
- e. The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage.
- f. If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the Government shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- g. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall--
 - 1. Obtain all warranties that would be given in normal commercial practice;
 - 2. Require all warranties to be executed, in writing, for the benefit of the Government, if directed by the Contracting Officer; and
 - 3. Enforce all warranties for the benefit of the Government, if directed by the Contracting Officer.
- h. In the event the Contractor's warranty under paragraph (b) of this clause has expired, the Government may bring suit at its expense to enforce a subcontractor's, manufacturer's, or supplier's warranty.
- i. Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defects of material furnished by the Government nor for the repair of any damage that results from any defect in Government-furnished material or design.
- j. This warranty shall not limit the Government's rights under the Inspection and Acceptance clause of this contract with respect to latent defects, gross mistakes, or fraud.

GOVERNMENT-FURNISHED RFP DRAWINGS, SURVEYS AND SPECIFICATIONS – JUL 2001

- a. The Contractor shall--
 - 1. Check all Government-furnished drawings and surveys immediately upon receipt;
 - 2. Compare all drawings and verify the figures before laying out the work;
 - 3. Promptly notify the Contracting Officer of any discrepancies; and
 - 4. Be responsible for any errors that might have been avoided by complying with this paragraph.
- b. Large-scale drawings shall, in general, govern small-scale drawings. Figures marked on drawings shall, in general, be followed in preference to scale measurements.

- c. Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work, but shall be performed as if fully and correctly set forth and described in the drawings and specifications.
- d. The work shall conform to the specifications and the contract drawings identified as:

CRITERIA DRAWINGS AND SURVEYS	
IDIQ FOR DESIGN-BUILD REPLACE FAMILY HOUSING DYESS AIR FORCE BASE ABILENE, TEXAS	
Sequence No.	Title
1	The list of drawings and maps set out in the index on the drawings is hereby incorporated by reference into these specifications.
thru	
[...]	Schedules included in the drawings are for the purpose of defining requirements other than quantities.

CONSTRUCTOR'S ROLE DURING DESIGN – JUN 1998

The Contractor's construction management key personnel shall be actively involved during the design process to effectively integrate the design and construction requirements of this contract. In addition to the typical required construction activities, the constructor's involvement includes, but is not limited to actions such as: integrating the design schedule into the Master Schedule to maximize the effectiveness of fast-tracking design and construction (within the limits allowed in the contract), ensuring constructability and economy of the design, integrating the shop drawing and installation drawing process into the design, executing the material and equipment acquisition programs to meet critical schedules, effectively interfacing the construction QC program with the design QC program, and maintaining and providing the design team with accurate, up-to-date redline and as-built documentation. The Contractor shall require and manage the active involvement of key trade subcontractors in the above activities.

RECOMMENDED INSURANCE COVERAGE – JUL 2001

The Design-Build Contractor's attention is invited to the contract requirements concerning "RESPONSIBILITY OF THE CONTRACTOR FOR DESIGN" and "WARRANTY OF CONSTRUCTION WORK". These requirements vest in the Contractor complete responsibility for the professional quality, technical accuracy, and coordination of all design, drawings, specifications and other work or materials furnish by his in-house or consultant forces. The Design-Build Contractor must correct and revise any errors or deficiencies in his work, notwithstanding any review, approval, acceptance or payment by the Government. The Contractor must correct and change any work resulting from his defective design at no additional cost to the Government. The requirements further stipulate that the Design-Build Contractor shall be liable to the Government for the damages to the Government caused by negligent performance. Though not a mandatory requirement, this is to recommend that the Design-Build Contractor investigate and obtain appropriate insurance coverage for such liability protection.

VALUE ENGINEERING AFTER AWARD – JUNE 1999

- a. In reference to Contract Clause 52.248-3, "Value Engineering – Construction", the Government may refuse to entertain a "Value Engineering Change Proposal" (VECP) for those "performance oriented" aspects of the Solicitation documents which were addressed in the Contractor's accepted contract proposal and which were evaluated in competition with other offerors for award of this contract.
- b. The Government may consider a VECP for those "prescriptive" aspects of the Solicitation documents, not addressed in the Contractor's accepted contract proposal or addressed but evaluated only for minimum conformance with the Solicitation requirements.

- c. For purposes of this clause, the term “performance oriented” refers to those aspects of the design criteria or other contract requirements which allow the Offeror or Contractor certain latitude, choice of and flexibility to propose in its accepted contract offer a choice of design, technical approach, design solution, construction approach or other approach to fulfill the contract requirements. Such requirements generally tend to be expressed in terms of functions to be performed, performance required or essential physical characteristics, without dictating a specific process or specific design solution for achieving the desired result.
- d. In contrast, for purposes of this clause, the term “prescriptive” refers to those aspects of the design criteria or other Solicitation requirements wherein the Government expressed the design solution or other requirements in terms of specific materials, approaches, systems and/or processes to be used. Prescriptive aspects typically allow the Offerors little or no freedom in the choice of design approach, materials, fabrication techniques, methods of installation or other approach to fulfill the contract requirements.

SUBMITTAL OF WORK TO BE PERFORMED BY THE CONTRACTOR – JUL 2001

The Contractor shall furnish the Contracting Officer within 10 days after the award the items of work he will perform with his own forces and the estimated cost of those items. The percentage of work that must be performed by the Contractor is stated in the clause entitled, "Performance of Work by the Contractor."

PROTECTION OF MATERIAL AND WORK – AUG 1997

The Contractor shall at all times protect and preserve all materials, supplies and equipment of every description (including property which may be Government-furnished or owned) and all work performed. All reasonable requests of the Contracting Officer to enclose or specially protect such property shall be complied with. If, as determined by the Contracting Officer, material, equipment, supplies, and work performed are not adequately protected by the contractor, the Government may protect such property and the cost thereof may be charged to the contractor or deducted from any payment due him.

CONTRACTOR’S FINAL (100%) CONSTRUCTION DOCUMENTS

The drawings and specifications referred to in the third sentence of Contract Clause 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, subparagraph (a), are those drawings and specifications furnished with the Solicitation; this reference does not apply to the accepted Contractor’s final (100%) construction documents. Therefore, in addition to this requirement, the Contractor shall keep at the work site a copy of the accepted Contractor’s Final (100%) Construction Documents (drawings and specifications, including schedules and color boards) and a complete set of the Contract Documents. The Contractor shall at all times give the Contracting Officer access to these documents as well.

APPROVAL OF MACHINERY AND EQUIPMENT

Reference to Contracting Officer’s approval of “machinery and mechanical and other equipment to be incorporated into the work” in Contract Clause 52.236-5 MATERIAL AND WORKMANSHIP, paragraph (b), applies only to machinery and equipment specified in the Solicitation documents.

SECTION 01012

SUBMITTALS DURING DESIGN

04/02

AMENDMENT NO. 0001

PART 1 GENERAL

1.1 SUMMARY

1.1.1 SECTION INCLUDES

This section includes general requirements for developing and submitting a design including preparation of drawings, specifications and design calculations conforming to the requirements contained in this section.

1.1.2 SECTION EXCLUDES

This section does not include requirements for construction submittals, which are specified in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURE."

1.2 DESIGN COMPLETION SCHEDULE

See paragraph COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK in Section 01001 DESIGN AND CONSTRUCTION SCHEDULE for the Completion Schedule of the entire work.

1.3 REFERENCES

The publications listed below form a part of this specification to the extent referenced in the Contract. The publications are referred to in the text by basic designation only.

THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI)

CSI Masterformat (1995) MasterFormat

U.S. DEPARTMENT OF DEFENSE

MIL-HDBK-1008C (10 June 1997) Fire Protection For
Facilities Engineering, Design and
Construction

INTERNATIONAL CODE COUNCIL (ICC)

ICC Building Code (2000) ICC International Building Code
ICC Plumbing Code (2000) ICC International Plumbing Code
(IPA)
ICC Mechanical Code (2000) ICC International Mechanical Code
ICC Fire Code (2000) ICC International Fire Code
ICC Fuel Gas Code (2000) ICC International Fuel Gas Code

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 1 (February 5, 2001) Fire Prevention Code

NFPA 70 (2002) National Electrical Code
NFPA 101 (2000) Life Safety Code

US ARMY CORPS OF ENGINEERS, SOUTHWESTERN DIVISION (SWD)

SWD-AEIM (October, 2000) Architectural and
Engineering Instructions Manual (SWD-AEIM)

1.4 SUBMITTALS

SD-05 Design Data

Design Certification and Transmittal Letter; G.

See DESIGN CERTIFICATION paragraph. Form is attached at the end of this Section.

1.5 (AM#1) ENGLISH REQUIREMENTS

(AM#1) This is an English dimension project. See Section 01016 DESIGN DOCUMENT REQUIREMENTS for additional requirements.

1.5.1 (AM#1) Not Used

1.5.2 (AM#1) Not Used

1.5.3 (AM#1) Not Used

1.5.4 (AM#1) Not Used

1.5.5 (AM#1) Not Used

1.6 DEFINITIONS

1.6.1 Acceptance

This is the Government's review of the design submittals, construction submittals, and record drawings for conformance to the Contract requirements. Acceptance shall not be construed to be an endorsement of the accuracy or completeness of the design. The Contractor is ultimately responsible for the contract design and construction. Design deficiencies or omissions in the accepted design shall be the responsibility of the Contractor and the Designer of Record.

1.6.2 Approve, Approved, and Approval

As these words are used throughout the documents, they shall mean "as approved by the Designer of Record unless otherwise expressly stated." See Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES.

1.6.3 Complete Specification Section

A Complete Specification Section is one that follows the Construction Specifications Institute's (CSI) 16-Division, 3-Part Section format, including the required submittal register and testing requirements.

1.6.4 Contractor

Firm or company to whom award is made to design and construct the project.

1.6.5 Contract Documents

Contract Documents, in addition to the signed Contract Form and the Contract Clauses, include the Request for Proposal, all amendments, the Contractor's proposal as accepted at the time of contract award, and the Contractor approved, Government accepted 100% final construction documents.

1.6.6 Construction Documents

Documents provided by the Contractor and accepted by the Government for use in constructing the project, including but not limited to final design drawings and specifications, schedules, submittal registers, and color boards.

1.6.7 Corps of Engineers Unified Facilities Guide Specifications (UFGS)

Includes the Corps of Engineers Unified Facilities Guide Specifications (UFGS) for Military Construction, the narrow-scope sections developed by the Fort Worth District (UFSWF GS), and the Fort Worth District Supplements to the UFGS.

1.6.8 Design Documents

Documents which include design drawings, project specifications, and design analyses (basis of design and calculations) prepared by or under the direct supervision of registered professional architects and engineers and proposed by the Contractor to meet the requirements of this Contract.

1.6.9 Design Drawings

Documentation showing in graphic and quantitative form the extent, design, location, relationships, and dimensions of the construction to be provided by the Contractor. (Note: Shop Drawings, as defined in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES, are not to be provided until after design drawings are accepted for construction.)

1.6.10 Designer

Architects and Engineers (A/E) associated with the Contractor who are responsible for the design and have the qualifications and experience specified.

1.6.11 Designer of Record

The Contractor's Architect/Engineer (A/E) is the "Designer of Record" and officially approves the design submittals, construction submittals, and record drawings. There shall be a designer of record for each design discipline. The designer of record is solely liable for design errors and/or omissions and shall have professional liability insurance to insure the designer against design errors and omissions. The Contractor's Construction Quality Control Staff will check and certify all construction submittals. See paragraph DESIGNER(S) OF RECORD for additional requirements.

1.6.12 Mandatory Guides

Mandatory Guides are those guides included in Divisions 2 through 16 of the

Contract as unedited or partially edited guides and which shall be included in the Contractor's construction specifications. Some of the guides may be partially edited while others may not be edited at all. The Contractor shall edit or finish editing these guides.

1.6.13 Mandatory Sections

Mandatory Sections are those sections included in Divisions 2 through 16 of the RFP which have been completely edited and shall be included in the Contractor's construction specifications verbatim.

1.6.14 Solicitation or Request for Proposal (RFP)

Documents furnished to prospective offerors containing proposal information and specifying criteria and project requirements for design and construction of the project. The documents include this specification, attachments, and the information drawings.

1.6.15 Construction Specifications

Construction specifications are the Contractor's developed construction specifications consisting of the Government-furnished Division 1 (General Requirements) sections and the Contractor-written sections in Divisions 2 through 16 which will be used to construct the project. Divisions 2 through 16 shall include any the Contract mandatory specifications

1.6.16 Design Development (60 Percent Design) Submittal

Design Development (60 Percent Preliminary Design) Submittal shall mean 60 percent building, including foundations, and 100 percent site work and utilities (including utilities within the 5 feet line of the housing units). See paragraph DESIGN SUBMITTALS for further clarification.

1.7 QUALITY ASSURANCE

1.7.1 DESIGN AND CONSTRUCTION PERSONNEL QUALIFICATIONS

Design and Construction Personnel experience shall be as submitted in accordance with the requirements of Section 00110 PROPOSAL SUBMISSION AND EVALUATION. If, because of reasons beyond the control of the Contractor, the named individuals are not able to fulfill their obligations, replacement personnel with similar skills and experience shall be presented for acceptance by the Contracting Officer. The Contractor shall obtain the Contracting Officer's written consent before making substitutions for designated personnel.

1.7.1.1 Project Manager

The project manager shall have a recognized four-year or higher college degree in architecture, engineering (or related technical fields), or construction management and have at least 5 years experience in managing design and construction projects or 10 years experience in managing construction projects only. Experience shall be related to housing projects similar in size and scope of this Contract. The Project Manager may be the lead designer.

1.7.1.2 Designers

Provide at least one professional licensed architects or engineers for each of the design disciplines (landscape, architectural, civil, structural, mechanical, and electrical) who have at least 5 years experience in their discipline. Each lead designer shall have a recognized four-year (or higher) college degree in architecture or engineering and 3 years experience as a lead designer. The architect shall be proficient with sustainable design or LEED Green Building Rating Systems and its building practices, technologies, policies, and standards as developed by the U.S. Green Building Council. The field work, analysis, and design of the cathodic protection system shall be accomplished by or under direct supervision of an engineer licensed in corrosion engineering or a corrosion specialist certified by the National Association of Corrosion Engineers (NACE). The corrosion engineer or corrosion specialist shall have a minimum of five years experience in designing and installing cathodic protection systems.

1.7.1.3 Surveyor

The Surveyor should be licensed in the State of Texas and have at least 5 years experience in the field of surveying.

1.7.1.4 Geologist/Geotechnical Engineer

The Geologist/Geotechnical Engineer should be a licensed geologist or registered professional engineer and have at least 5 years experience in soil borings and soil classification.

1.7.1.5 Early Childhood Play Specialist

The early childhood play specialist shall have a recognized four-year college degree in early childhood education or related technical fields, and have at least 5 years experience in the design of play areas.

1.7.1.6 Design Quality Control Manager

Design quality control manager and the alternate manager qualifications are specified in Section 01430 DESIGN QUALITY CONTROL. Design quality control manager shall not be the same person as the construction quality control manager.

1.7.1.7 Construction Quality Control Manager

Construction quality control manager and assistants qualifications are specified in Section 01451 CONSTRUCTION QUALITY CONTROL. Construction quality control manager shall not be the same person as the design quality control manager.

1.7.1.8 Project Superintendent

The Project Superintendent should be a graduate engineer or experienced construction person and have at least 5 years experience in related work on housing projects similar to this project. See Section 01451 CONTRACTOR QUALITY CONTROL for additional requirements.

1.7.1.9 Project Schedule Scheduler

Qualifications for the Scheduler are specified in Section 01320 PROJECT SCHEDULE.

1.7.1.10 CADD Personnel

CADD personnel shall be proficient in the preparation of architectural and engineering drawings and the CADD equipment that will be used to create the required drawings and record drawings. The lead CADD person shall have at least 5 years experience on the proposed equipment.

1.7.1.11 Industrial Hygienist

Industrial Hygienist (IH), or Designated Industrial Hygienist, shall be a professional qualified by education, training, and experience to anticipate, recognize, evaluate, and develop controls for occupational health hazards.

The Designated IH shall be board certified in the practice of industrial hygiene as determined and documented by the American Board of Industrial Hygiene (ABIH), have EPA Model Accreditation Plan (MAP) "Contractor/Supervisor" training accreditation required by 40 CFR 763, Subpart E, Appendix C, and have a minimum of 5 years of comprehensive experience in planning and overseeing abatement activities for asbestos, lead, regulated materials, and mold. Provide copies of the Designated IH's current valid ABIH certification, "Contractor/Supervisor" course completion certificate(s), the most recent certificate(s) for required refresher training, and the employee "Certificate of Worker Acknowledgment" as required in Section 13280 ASBESTOS ABATEMENT. The Designated IH shall be completely independent from the Contractor according to federal, state, or local regulations; that is, shall not be a Contractor's employee or be an employee or principal of a firm in a business relationship with the Contractor negating such independent status.

1.7.2 CONSTRUCTION MANAGEMENT KEY PERSONNEL

The Contractor's construction management key personnel shall be actively involved during the design process to effectively integrate the design and construction requirements of this Contract. In addition to the typical required construction activities, the Contractor's involvement shall include, but is not limited to, actions such as integrating the design schedule into the Master Schedule to maximize the effectiveness of fast-tracking design and construction (within the limits allowed in the Contract), ensuring constructability and economy of the design, integrating the material and equipment acquisition programs to meet critical schedules, effectively interfacing the construction QC program with the design QC program, and maintaining and providing the design team with accurate, up-to-date redline and as-built documentation. The Contractor shall require and manage the active involvement of key trade subcontractors in the above activities. The Contractor's Quality Control Staff will check and certify all submittals.

1.7.3 DESIGNER(S) OF RECORD

The Contractor shall identify, for approval, the Designer of Record for each area of work. One Designer of Record may be responsible for more than one area. All areas of design disciplines shall be accounted for by a listed, registered Designer of Record. The Designer(s) of Record shall stamp, sign, and date all design and construction drawings under their responsible discipline at each design submittal stage, including modification drawings after start of construction (See Section 00700, CONTRACT CLAUSES, Clause 52.236-25 entitled "Requirements for Registration of Designers").

1.7.4 CODES

Make all portions of the project comply with all applicable local, State, and federal regulations, including those listed below:

a. In the event of conflict or inconsistency between any of the provisions of the various codes, standards, or references, precedence shall be given in the following order:

- 1) Contract requirements
 - a) The code, standard, or reference that is listed in the Contract design or performance requirement;
 - b) When conflict exists between references, the more stringent requirement shall govern;
 - c) Where a particular design aspect is not covered by any of the codes, standards, or references listed, nor by the requirements specified in the Contract, the Contractor shall be guided by other nationally recognized and accepted codes or standards which do apply;
 - d) The "authority having jurisdiction," or the role of the code official, as cited in codes, standards, or references, will be the Contracting Officer.
- 2) Installation Design Guide
- 3) Southwestern Division's Architectural and Engineering Instructions Manual (SWD-AEIM)
- 4) Technical and Engineering Manuals, Instructions, Letters, Design Guides, Engineer Regulations, Pamphlets, and Bulletins.

b. Federal Regulatory Requirements:

- 1) 29 CFR 1910-1997, Occupational Safety and Health Standards, and in particular 29 CFR 1910.1001, Appendix F, "Work Practices and Engineering Controls for Automotive Brake and Clutch Inspection, Disassembly and Assembly."
- 2) U.S. Environmental Protection Agency (EPA), National Pollution Discharge Elimination System (NPDES) Storm Water Construction Permit in accordance with Federal register, Volume 63, Number 128, July 6, 1998.

c. State of Texas regulatory requirements

- 1) Texas Natural Resource Conservation Commission (TNRCC)
 - a) Air emission in accordance with 30 Texas Administrative Code (TAC) 116.111 and 30 TAC 106
 - b) Underground and Aboveground Storage Tanks per 30 TAC 334
 - c) Erosion and sedimentation control regulations, see NPDES requirements above and Section 01421 OUTLINE OF A BASIC STORM WATER POLLUTION PREVENTION PLAN, Volume III SPECIFICATIONS.

d. Non-Regulatory Criteria Documents:

- 1) NFPA 1, Fire Prevention Code
- 2) NFPA 70, National Electrical Code.
- 3) NFPA 101, Safety to Life From Fire in Buildings and Structures.
- 4) ICC International Fire Code
- 5) ICC International Building Code
- 6) ICC International Plumbing Code
- 7) ICC International Mechanical Code
- 8) ICC International Fuel Gas Code
- 9) SWD Architectural and Engineering Instructions Manual (SWD-AEIM).
- 10) For Environmental Design, see Chapter XII ENVIRONMENTAL DESIGN

of SWD-AEIM.

11) MIL-HDBK-1008C, Fire Protection For Facilities Engineering, Design and Construction

12) Army Regulation (AR) 200-1, Environmental Protection and Enhancement, February 1997.

1.8 SUBMISSION OF CONSTRUCTION DRAWINGS, SPECIFICATIONS, AND DESIGN ANALYSES

1.8.1 DESIGN CERTIFICATION

With each submittal the Contractor shall certify that all items submitted in the design documents (after contract award) comply with the Contract requirements. The criteria specified in this Contract are binding contract criteria and in case of any conflict, after award, between the Contract criteria and Contractor's submittals, the criteria stated in the Document Order of Precedence in Section 00800 SPECIAL CONTRACT REQUIREMENTS will govern. The Contractor shall present with the letter of transmittal for each design submittal (including the 100 percent corrected design (compliance check) submittal) a certification that the submittal (drawings, specifications, design analysis, etc.) complies with the requirements stated above. Prepare the design certification and transmittal letter in the format shown on Attachment A attached at the end of this Section.

1.8.2 DEVIATIONS

Deviations from the Contract requirements shall be identified in each design submittal's letter of transmittal. These deviations will be considered for approval by the Contracting Officer if the changes result in significant improvements to the project or they exceed the minimum Contract requirements. The Contracting Officer may reject any deviation proposed by the Contractor without explanation.

1.8.3 FIELD INSPECTION

The Contractor shall verify field conditions which are significant to design by field inspection, researching and reviewing the existing documents pertaining to the site and existing building(s), and evaluating observable existing conditions. The information shall be reflected in the design documents. It is the responsibility of the Contractor to evaluate existing conditions in the immediate proximity of the project to determine if such conditions may affect, or be affected by the proposed construction.

If there are site conditions which appear to affect the proposed construction the Contractor shall inform the Contracting Officer, in writing, before proceeding with the work.

1.8.4 NUMBER OF COPIES

The number of copies for distribution is specified in paragraph "Review Document Distribution." For each design submittal, submit for review and acceptance the specified number of copies of the construction drawings, specifications, design analyses, equipment schedules, submittal register, and all other submittal data, which shall be in accordance with the requirements of the Contract Documents. Upon final acceptance, make distribution of the accepted design and construction documents within 7 calendar days. With each distribution, provide one CD-ROM disk (or more if required) containing all documents. The CD-ROM disks shall be fixated "Final," which is a recording option that renders the disk totally used so that no other data tracks can be added in a later recording session. Proposed modifications shall be submitted in 8 copies. Final

modifications, after negotiations, shall be submitted in 8 copies (including one reproducible).

1.8.5 FINAL CONSTRUCTION DOCUMENTS

Each distributed set shall consist of full-size paper drawings, specifications, submittal register, design analysis, and a CD-ROM disk(s) containing all of the final design documents (e.g. drawings, specifications, submittal register, and design analysis files). Provide documents complete, accurate, and explicit enough to show compliance with the Contract requirements and to permit construction. Drawings and specifications illustrating systems proposed to meet the requirements of the Contract shall reflect proper detailing for each such system to assure appropriate use, proper fit, compatibility of components and coordination with the specifications and design analysis required by this section. Coordinate drawings to ensure there are no conflicts between design disciplines and between drawings and specifications. See additional requirements in PART 3 EXECUTION. During and upon completion of the project, the accepted design documents shall be corrected to reflect as-built conditions in accordance with Section 01780 CLOSEOUT SUBMITTALS.

1.8.5.1 Final Construction Drawings

In addition to the required number of hard copies of final design documents (e.g. drawings, specifications, submittal register, and design analysis), construction document (100 percent final design) drawings, and record (i.e. as-built) drawings after the completion of the project shall be submitted on CD-ROM disk in the CADD format required by the Contract. Furnish four CD-ROM disks, one each for the Area Office, Corps of Engineers' District Office, Corps of Engineers' Dyess Resident Office, and the User. On the CD-ROM disk include the electronic .dgn or .dwg CADD drawing files, the CADD drawing files in .CAL format (CADD files converted to .CAL) for viewing on MaxView Reader, and an Excel spreadsheet listing for each drawing the drawing number, sequence number, level/layer assignments, line colors, line weights, and line types. See additional requirements in PART 3 EXECUTION.

1.8.5.2 Computer Aided Design and Drafting (CADD) Systems

Within 10 days of Contract Notice to Proceed, furnish for approval samples of CADD electronic files created on the equipment and software to be used for this work. CADD work will not proceed until the Contractor's proposed CADD system and resulting CADD files have been acceptably demonstrated to work on the Corps of Engineers' Fort Worth District Office and the User's CADD systems.

1.8.5.3 Specifications and Design Analysis

Specifications and design analysis shall be provided in hard copy and on the same CD-ROM disk as the drawings, Microsoft Word for Windows format (Version Word 2000, but shall be compatible with the version used at Dyess Air Force Base). The Division 1 sections included in the Contract shall be reprinted in the final 100 percent construction specifications. Hard copies of the specifications and design analyses shall be bound separately in 3-ring binders. Each set of documents shall have its own Table of Contents. See additional requirements in PART 3 EXECUTION.

1.8.5.4 Final Document CD's

All Automated Computer Aided Design (ACAD) files, Technical Specification Files, and Design Analysis files shall be remitted to the Government on 12 CM (5") Single Sided CD ROM disks, which stores 680MB and can be read with 3000 KB/S-20X (Read Only) Drive. Minimum required disk life is 30 years. All files, whether CADD or those created by a Windows based word processor, spread sheet, or database program respectively, shall be provided in their original uncompressed format.

1.8.6 DESIGN DOCUMENTS

Design documents shall include construction drawings, specifications, submittal register, design analysis, and drafts of DD Form 1354. Detailing and installation of all equipment and materials shall comply with the manufacturers' recommendations. Construction drawings and specifications shall not make reference to RFP requirements. The Contractor, including designers, shall visit the site and make other trips as necessary during the design to accomplish the work. See Section 01016 DESIGN DOCUMENT REQUIREMENTS for additional descriptions.

1.8.6.1 Drawings

See paragraph SUBMISSION OF CONSTRUCTION DRAWINGS, SPECIFICATIONS AND DESIGN ANALYSES, subparagraph "FINAL CONSTRUCTION DOCUMENTS."

1.8.6.2 Specifications

Specifications shall be in sufficient detail to fully describe and demonstrate the quality of materials, the installation and performance of equipment, and the quality of workmanship. Specifications shall conform to the Construction Specifications Institute (CSI) 16-Division 3-Part format and follow the CSI's section numbering system defined in CSI MasterFormat. No two sections shall have the same section number. Division 1 specifications shall consist of the Division 1 sections included in the Contract. The specifications shall clearly identify the specific products chosen to meet the requirements of the Contract (manufacturers' brand names and model numbers or similar product information). Turfing sections shall indicate planting dates.

1.8.6.3 Design Analysis

Describe the design of each discipline of work, including all features and the necessary calculations, tables, methods, and sources used in determining equipment and material sizes and capacities. Provide sufficient information to support the design of the various categories such as, but not limited to, architectural, interior design, structural, mechanical, electrical, civil including grading, drainage, paving, environmental, and outside utility services, and Contract included items.

1.8.6.4 Sustainable Project Rating Tool (SPiRiT)

In addition to other requirements, provide environmentally responsible design and construction that minimizes adverse effects on the exterior environment, enhances the quality of the indoor environment, and minimizes consumption of energy, water, construction materials, and other resources. See Section 01000 STATEMENT OF WORK, Chapter 3 SUSTAINABLE DESIGN CONSIDERATIONS for additional information.

- a. Achieve at least a Bronze rating in accordance with Sustainable Project Rating Tool (SPiRiT) which is derived from The U.S. Green

Building Council LEED 2.0 (Leadership in Energy and Environmental Design) Green Building Rating System; selection of specific credits to achieve is the responsibility of Contractor unless otherwise indicated; comply with criteria specified in current Sustainable Project Rating Tool (SPiRiT) documentation as well as related criteria specified in other chapters. The Sustainable Project Rating Tool (SPiRiT) is included in the Appendices and can also be viewed at the following web site:

<http://www.cecer.army.mil/Sustdesign/SPiRiT.cfm>

1.8.6.5 DD Form 1354

The 1354 process consists of preliminary and final drafts of the DD Form 1354, TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY, and a Final DD Form 1354. DD Form 1354 is required so that Dyess Air Force Base can update their real property maintenance records. Submit the preliminary drafts with each of the design submittals and a final draft within 30 days of the Government's acceptance of the 100% construction documents. These drafts shall contain as many of the resource code items with cost and quantity data as can be developed from the Contractor's submittal documents. The Government will use the final DD Form 1354 draft to develop the DD Form 1354 to be submitted to Dyess AFB. The form, a sample of a completed form, and a general list of resource codes with cost and quantity data are included in the ATTACHMENTS. An electronic file of the form, DD1354.frl, for use with Delrina Perform Pro Form Filler, version 16 Jul 1992, or its successor software Form Flow Filler, Version 2.22 (March 5, 1999) is located on the Solicitation and Contract CD-ROM disks.

1.8.7 DESIGN SUBMITTALS

1.8.7.1 General

The Contractor shall schedule the number and date of the design submittal phases and conferences. Design submittals are required at the design development (preliminary 60 percent), construction drawing (final 100 percent design) stages, and at the corrected construction drawing (final design) stage. The number, date, and contents of the design submittal phases shall be reflected in the project schedules. An authorization letter to start work will be provided separately by the Contracting Officer for each phase of the design. See paragraph "Government Design Review and Acceptance". See additional requirements in PART 3 EXECUTION..

1.8.7.2 Design Development (60 Percent Design) Submittal

The 60 percent design submittal includes the 60 percent in-progress building design and the 100 percent complete site work and exterior utilities. These documents shall be packaged and stamped "For Review Only - Design Development (60% Design)". Each sheet of the drawings shall also be stamped except sitework and exterior utilities which will be stamped "Construction Documents (100% design)". See additional requirements in PART 3 EXECUTION.

1.8.7.3 Construction Documents (100 Percent Design) Submittal

The 100 percent design submittal includes complete site and utility design and building design and shall be stamped "For Review Only -Construction Documents (100% Design)", and each sheet of the drawings shall also be stamped. Contractor shall make final proposal of all materials and finishes at this stage.

1.8.7.4 Compliance Check Design Submittal

The compliance check design submittal(s) after the Government review of the 100 percent complete site and building designs shall be stamped "Construction Documents (100% Corrected Design)"; and each sheet of the drawings shall also be stamped and signed by the Designer of Record.

1.8.7.5 Insufficient Design Submittals and Delays

No additional time for completion of the contract will be granted to the Contractor due to insufficient design submittals. Delays caused by the Contractor in completion of the Design Development (60 percent design), Construction Documents (100 percent design), or the 100 percent corrected design will not be considered as valid reason to delay the entire project within the specified project duration.

1.8.7.6 Deviations or Betterments

The Contractor shall bring to the Government's attention any deviations or betterments made to the RFP and Contractor's proposal documents. These shall be summarized in letter form with reasons and highlighted or clouded details on the applicable drawings and documents submitted. See Section 00800 SPECIAL CONTRACT REQUIREMENTS for additional requirements concerning betterments.

1.8.7.7 Review Design Documents

The Contractor shall submit all drawing design documents on black-line media with "FOR REVIEW" stamped in 1/2-inch high letters in the lower right corner in red ink. Specifications and Design Analyses shall be hard copy with "FOR REVIEW" stamped in 1/2-inch high letters in the lower right corner in red ink. The Contractor shall submit Contractor-approved documents on black-line media with "APPROVED FOR CONSTRUCTION" similarly stamped.

1.8.8 DESIGN REVIEWS

Design reviews will be held at Base Civil Engineer Office, Dyess Air Force Base, at the Design Development (preliminary 60 percent), Construction Documents (final 100 percent), and corrected final stages of the final design in accordance with the Contractor's Project Schedule. The Government shall have thirty (30) calendar days review period for each submittal (Design Development (60 percent design) and Construction Documents (100 percent Design)) and fourteen (14) calendar days review period for resubmittal of the 100 percent Design (including the 100% final site work and utilities, and foundation portion of the 60% Submittal and the Compliance Check Design) after incorporation of final review comments. Additional design review conference(s) between the Contractor and the Government may be held after submittal of the Design Development (60 percent) or the Construction Documents (100 percent) design(s) if the Government determines them necessary. The time for Government review will be calculated from the date of receipt of the design submittals at the Government address to the date annotated conformance review comments are mailed to the Contractor.

1.8.8.1 Review Intent

Reviews will be for conformance with the technical requirements of the

Contract. If the Contractor disagrees technically with any comment and does not intend to comply with the comment, the Contractor shall clearly outline, with ample justification, the reasons for noncompliance within 5 days after receipt of these comments in order that the comment(s) can be resolved. The Contractor shall furnish disposition of all comments, in writing, with the next scheduled submittal. If the Contractor believes the action required by any comment exceeds the requirements of the Contract, the Contractor shall immediately notify the Contracting Officer in writing and take no action regarding this matter until the matter is resolved.

1.8.8.2 Late Submittals

If a design submittal is over one (1) day late in accordance with the latest design schedule, the Government review period will be extended 7 days. The review conference will be held the week after the review period. Submittal date revisions shall be in writing at least one week prior to the affected submittal.

1.8.8.3 Review Document Distribution

For each review, review documents shall be sent, in the quantity indicated, to the addresses listed below. The documents will be in their then present "on-board" design status. All documents must contain an index of contents.

Work shall, however, continue up to the time of the review conference date(s) when 2 copies of then-current design documents will be brought to the issuing office for the conference review. Originals of transmittal letters shall be sent to the Area Engineer, address as shown below, and copies should accompany each mail package. Transmittal letters shall indicate distribution by use of the "ATTN" code shown in the address.

No. of Copies

(8- Review)	District Engineer
(2- Final)	US Army Engineer District, Fort Worth
	ATTN: CESWF-EC-AM (Mr. Wayne McDonald))
	P.O. Box 17300
	Fort Worth, TX 76102-0300
	817-886-1893
	wayne.mcdonald@swf02.usace.army.mil
	<mailto:wayne.mcdonald@swf02.usace.army.mil>
(6- Review)	7 CES/CECN
(6- Final)	ATTN: John Ford
	710 Third Street
	Dyess AFB TX 79607-1670
	915-696-5618
	John.ford@dyess.af.mil <mailto:John.ford@dyess.af.mil>
(8- Review)	HQ ACC/CECW
(3- Final)	7th Bomb Wing
	ATTN: Conrad Browe, Room 326
	129 Andrews Street, Suite 102
	Langley AFB, VA 23665-2769
	757-764-0810
	Conrad.Browe@Langley.af.mil
	<mailto:Conrad.Browe@Langley.af.mil>
(2- Review)	Central Texas Area Office
(2- Final)	ATTN: CESWF-AO-C (Mr. Atlan Citzler)

4622 Engineer Drive @ 79th Street
Fort Hood, TX 76544
(P.O. Box 757
Killen, TX 76540-0757)
254-532-3047; ext 5401

(2- Review) US Army Corps of Engineers
(2- Final) Dyess Project Office
ATTN: CESWF-PO-D (Kenneth Atchison)
818 3rd Street
(P.O. Box 9605)
Dyess Air Force Base, TX 79607-9605
915-692-8601
Ken.t.Atchison@swf02.usace.army.mil
<mailto:Ken.t.Atchison@swf02.usace.army.mil>

1.8.8.4 Additional Review Time

If for any reason the Government requires more time than that stated for review, then the Contractor will be granted an extension of time equal to the number of calendar days of delay.

1.8.8.5 Government Design Review and Acceptance

Government personnel will present review comments for discussion and resolution. Copies of comments, annotated by the Designer of Record with comment action agreed on, will be made available to all parties at least 10 calendar days prior to the conference. Review conferences will be scheduled by the Contractor. Unresolved problems will be resolved by immediate follow-on action at the end of conferences. Valid comments will be incorporated into the Documents. On receipt of final corrected design documents (with all backcheck comments incorporated) that are acceptable, the Contracting Officer shall notify the Contractor in writing that the documents are accepted and construction may begin. Furnish the final design and construction documents in accordance with paragraph "Number of Copies." The Government, however, reserves the right to not accept design document submittals if outstanding unincorporated comments are of too great a significance. In this case, every effort shall be made during follow-up action between the Contractor and the Fort Worth District to resolve conflicts and problems such that documents can be accepted. However, if final submittal(s) are incomplete or deficient, requiring correction by the Contractor and resubmittal for review, the cost of rehandling and reviewing will be deducted from payment due the Contractor at the rate of \$500.00 per submittal.

1.8.9 FINAL CONSTRUCTION DOCUMENTS

Following the last submittal, the Contractor shall forward the completed original set of reproducibles for acceptance. Upon Government acceptance of corrected 100 percent final design documents, the original will be returned to the Contractor for reproduction purposes. The Contractor shall be responsible for reproduction. Within 7 calendar days after acceptance, the Contractor shall mail 1 complete set of the accepted design documents to the Fort Worth District, CESWF-EC-AM Attn: Wayne McDonald, and 5 complete sets to the Corps of Engineers' Area Engineer, Central Texas Area Office, Dyess Project Office. Each set shall consist of full size paper drawings, specifications, design analysis, and CD-ROM disk(s) containing the Contract Award CD files (contract, proposal, contract viewer, etc.) and all construction drawings, specifications, submittal register, and design

analysis files). Arrange the construction document files in a Construction Documents folder with subfolders for drawings, specifications, design analysis, submittal register, etc. Modify the "aYYr00NN.con" file so that the drawings' .cal files can be viewed through the Contract Viewer. During and upon completion of the project, the accepted construction documents shall be corrected to reflect as-built conditions in accordance with Section 01780 CLOSEOUT SUBMITTALS. After acceptance, changes to the final construction documents shall not be made without the Contracting Officer's knowledge and acceptance.

1.8.10 COORDINATION

1.8.10.1 Written Records

The Contractor shall prepare a written record of each design site visit, meeting, or conference, either telephonic or personal, and furnish copies to the Contracting Officer and all parties involved within 5 working days. Include subject, names of participants, outline of discussion, and recommendation or conclusions. Number each written record for the particular project under design in consecutive order.

1.8.10.2 Design Needs List

Throughout the life of the Contract the Contractor shall furnish the Contracting Officer a biweekly "needs" list for design related items. This list shall itemize in an orderly fashion design data required by the Contractor to advance the design in a timely manner. Each list shall include a sequence number, description of action item, and the name of the individual or agency responsible for satisfying the action item and remarks. Maintain the list on a continuous basis with satisfied action items checked off and new action items added as required. Once a request for information is initiated, that item shall remain on the list until the requested information has been furnished or otherwise resolved. Mail copies of the lists to both the Contracting Officer and the agencies tasked with supplying the information.

1.8.11 REVISIONS TO THE ACCEPTED DESIGN

(a) The accepted design will be used by all parties involved in construction and in administration of the Contract. Therefore, it is imperative that the design documents be kept up to date and an effective system of making and distributing changes be implemented. Since changes to the design increase risk of construction errors and deplete available administrative resources, every effort shall be made to minimize revisions to the accepted design. One of the measures of the Contractor's effectiveness of management will be how well the goal of minimizing changes to the accepted design is met. The use of effective quality control during design and utilization of experienced and capable designers are some of the means that are expected to be used to accomplish this goal.

(b) If revisions to the accepted design become necessary, the procedures described in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES will be used to accomplish the revisions. The revisions will be considered a "Variation" and shall be submitted as a Government Review (Resident Engineer) submittal. All the requirements in paragraph: "Variations" in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES will apply to revisions to the accepted design. All design analysis and calculations necessary to establish that the proposed revision satisfies applicable design requirements shall be included in the submittal.

PART 2 PRODUCTS

2.1 DESIGN DEVELOPMENT (60 PERCENT PRELIMINARY) DESIGN REQUIREMENTS

Preliminary design documents shall include all applicable plans, details, and specifications specified in the paragraph CONSTRUCTION DOCUMENTS (100 PERCENT PRELIMINARY) DESIGN REQUIREMENTS, drawn to 60 percent completion or more, unless otherwise indicated. Identify and resolve conflicts in the design requirements, between the design requirements and the Contractor's design proposal, or those due to lack of thorough understanding of the nature and scope of work prior to submittal of the 60 percent design. Drawings, design analysis, and specifications will be reviewed for compliance with the Contract design requirements at this design submittal. Submit the following:

2.1.1 Rendering

The Contractor shall prepare an architectural rendering for inclusion with the 60 percent Design Submittal. The rendering will be in full color, represent the final exterior color and material selections, approximately 20 inches by 24 inches in size, on illustration board, matted and framed with non-glare glass, and with project title on mat. The perspective shall be from an eye-level or low-level aerial point of view that will highlight the most attractive features of the project. The Contractor shall furnish one preliminary black-and-white sketch of the proposed rendering to the Contracting Officer, along with three (3) proposed exterior color schemes, for review and acceptance prior to proceeding with the color version.

2.1.2 Drawings

Furnish all drawings that are required for the 100 percent submittal. Except for site work and exterior utilities all drawings shall be developed to approximately 60 percent completion. Site work and exterior utilities shall be 100 percent complete. The drawings shall be fully coordinated with the design analysis and specifications.

2.1.3 Specifications

Provide all specification sections required for 100 percent submittal. Specifications for site work and exterior utilities) shall be 100 percent complete. All other specifications required for the completion of the building(s), including turfing, and landscaping shall be at least mark-ups of the required technical and trade sections. Include the identification of the "author" of the industry guide specifications used, any mandatory guide specifications required in this Contract, and a project table of contents listing all sections to be included in the project.

2.1.4 Submittal Register

Prepare a Submittal Register as specified in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES and paragraph CONSTRUCTION SPECIFICATIONS, subparagraph "Submittal Register," of this Section. Submittals for site work and utilities shall be 100 percent complete. Submittals for all other work shall be developed to the extent required to support the level of design included in this submittal. Submit a copy of the "Subreg" folder with the updated files and program and four hard copies of the register with this design submittal.

2.1.5 Design Analysis

The design analysis shall give the basis for design for all disciplines and should establish specific goals, objectives, and priorities for the design of this project. Identify, explain, and document use of design criteria and how the design meets goals, objectives, and priorities. The design analysis shall comply with SWD-AEIM, Chapter IX, and include narrative description and analysis of all building systems, appropriate checklists, calculations, and catalog cut sheets of equipment used in the design.

2.1.6 Design Checklists

Furnish completed local Dyess AFB checklists and the Reliability and Maintainability Design Checklists from Air Force ETL 88-4. Checklists are attached to this Section.

2.1.7 Sustainable Project Rating Tool (SPiRiT)

In accordance the sustainable design requirements in PART 1 GENERAL's DESIGN DOCUMENTS' subparagraph "Sustainable Project Rating Tool (SPiRiT)", and using the Sustainable Project Rating Tool (SPiRiT), Version 1.4, provide a self-assessment of the achievement to-date of the sustainability features of the facility (see Volume IV ATTACHMENTS for the Sustainable Project Rating Tool manual and rating sheets). For each required element and for each point-scored element where you will meet (or exceed) the requirement, provide justification of how you will meet the stated requirement. Justification shall be documented on Use the Microsoft Excel version of SPiRiT tool (SPiRiT v.1.4 Final.doc) for documentation.) available on the Internet at <http://www.cecer.army.mil/Sustdesign/SPiRiT.cfm>, or use the version that is on the Solicitation Contract CD. Justification shall be inserted in the document immediately after the requirement text for each element. Label the justification as "Justification of Scoring". Summarize the Scoring scoring shall be summarized on the SPiRiT scoring sheet (SPiRiT v.1.4 Final Summary Sheets.xlsSPiRiT v1.4 (.xls), April 2001) which is available at <http://www.cecer.army.mil/Sustdesign/SPiRiT.cfm> (this file is also located on the Solicitation Contract CD). This scoring summary shall be attached to the front of the SPiRiT tool in the submitted documentation. If Bronze level certification cannot be attained, discuss the factors that prevent achieving achievement of this goal.

2.1.8 Demolition

Provide the site clearing, demolition, and removal drawings of the site to receive the new housing, 100 percent complete, ready to start work.

a. Site Demolition Drawings (Removal Plan)

Show new work and removal work on separate drawings. The type and the scope of removal work intended shall be clear from an inspection of the documents. Keyed notes for removal are allowed.

The removal plan shall show the existing physical features and condition of the site before construction. Include the field survey to show all above and below ground utilities; buildings, drives, roads and parking areas, walks, and vegetation; and such facilities as retaining walls, underground storage tanks, foundations, existing contours, etc. Each physical feature to be removed shall be as indicated on the standard legend sheet, a legend on the removal plan, and properly noted: to be removed, to remain, or to be

relocated.

b. Building Demolition Drawings (Removal Plan(s))

The type and the scope of removal work intended shall be clear from an inspection of the documents. Show the existing physical features and condition of the site before construction. Show all walls, fixtures, and utilities to be removed. Each physical feature to be removed shall be as indicated on the standard legend sheet, a legend on the removal plan, and properly noted: to be removed, to remain, or to be relocated.

2.1.9 Civil Design

The drawings shall be 100 percent complete, ready for start of construction.

Drawings shall fully describe the type and the scope of work required. Include all necessary and required details, be thoroughly checked, and be fully coordinated with the Construction Specifications and all other Construction Documents.

2.1.10 Landscaping Design

Provide Landscaping Plan, including sprinkler system layout, and any details required for this level of design.

2.1.11 Architectural Design

60 percent architectural drawing submittal shall be a complete set of architectural drawings without large scale details. All other drawings shall be complete except referencing of the large scale details. Room finish schedule, and door, window, and louver schedules, shall all be complete except for references to details.

2.1.12 Interior Design

Provide SID Notebook(s) and design analysis.

2.1.13 Structural Design

Provide foundation plans and details. Provide details and notes for required structural work. Building structural members shall be at least outlined. Provide elevation views, sections, and details necessary to illustrate the design at a 60 percent level of completion. Roof framing plan(s) shall show sufficient details to clearly indicate the type of framing system used, size, and spacing of members and their elevations.

2.1.14 Mechanical Design

Provide plans, piping diagrams, sections, flow diagrams, details, schedules, and control diagrams/sequences as necessary to define the required design intent at this level of design. Floor plans shall use the architectural floor plans as a basis, with the building outline half-toned.

Unless otherwise indicated, all floor plans shall be drawn at a minimum 1/8-inch = 1'-0" scale and shall show room names and numbers. Provide preliminary mechanical room sections to ensure that major equipment items, piping, and ductwork will fit as designed. For the 60 percent submittal, all supply and return mains shall be shown as double-lined although branch ducts, takeoffs, and ductwork to diffusers may be single-lined. Piping 6 inches and larger shall be shown as double-lined for the 60 percent submittals.

Complete Attachment C for mechanical room sizing.

2.1.15 Electrical Design

Fully coordinate the 60 percent design drawings with the design analysis. Provide sufficient plans, single-line diagrams, riser diagrams, details, and schedules as necessary to define the required design intent for this level of design. Indicate all circuits, circuit breakers or fuse locations, panelboards, and PDUs known at this level of design.

2.1.16 Fire Protection Design

Provide the Life Safety Plan and the Fire Protection site and floor plans, complete. Fire protection details shall be sufficient for this level of design. Fire protection plans and details shall be approved by the fire protection engineer.

2.1.17 Environmental Design

Provide 60 percent completed document of the following item[s] for the 60 percent submittal:

- a. Environmental Survey Sampling Plan for Existing housing demolition.
- b. Basic Stormwater Pollution Prevention Plan
- c. Storm Water Pollution Prevention Plan, Plans for Storm Water Controls, and Implementation of Pollution Prevention Plan
- d. Design Analysis

2.2 CONSTRUCTION DOCUMENTS (100 PERCENT DESIGN) REQUIREMENTS

All drawings included in the required technical data for the proposal submission shall be developed to 100 percent completion. In addition to the individual utility plans, submit a combined utility plan drawn to the same scale as the individual utility plans. Furnish mechanical and electrical plans, with complete schematics, to show all air conditioning, plumbing, and electrical work. All design and calculations shall be performed by licensed professional engineers or architects. The following design documents shall be provided in the design submittals.

2.2.1 SITE/INFRASTRUCTURE

2.2.1.1 Environmental Protection Plan

Prepare and submit an Environmental Protection Plan in accordance with the requirements of Section 01355 ENVIRONMENTAL PROTECTION FOR DYESS AIR FORCE BASE. As an Appendix to the Environmental Protection Plan, the Contractor shall include copies of all environmental reports, permits, approvals, applications, and associated documents as an Appendix to the Environmental Protection Plans.

2.2.1.2 Location Plan and Vicinity Map

The Location Plan and Vicinity Map provided in the Request For Proposal (RFP) shall be updated as necessary and included in the drawings. The Location Plan shall include the Contractor's Access Route, Staging Area,

stockpile areas, and the Project Site.

2.2.1.3 Removal Plan

The removal plan will show the existing physical features and condition of the site to receive the new housing before construction. Each physical feature to be removed shall be hatched as indicated on the standard legend sheet, a legend on the removal plan, and properly noted: to be removed, to remain, or to be relocated. The Removal Plan shall be prepared at the same drawing scale and use the sheet boundaries as the Site Plan.

2.2.1.4 Site Plan

The Site Plan shall show all the site layout information necessary to field locate the houses, street work, driveways, sidewalks, patios, privacy fence, security fence, recreation areas, and all other appurtenances to be constructed as part of the project. All major site work to be constructed will be dimensioned for size and location. The Site Plan will identify all site-related items such as: curbs, driveways, walks, retaining walls, mechanical units, electrical transformers locations, etc. in accordance with a standard legend sheet or with additional legends or notes. Drawing scales of 1" = 30' or 1' = 40' are acceptable scales for the Site Plan. The Contractor shall consider the project's construction area, drawing legibility, number of sheets required in choosing the drawing scale. The Site Plan, prior to adding the dimensions and notes, should serve as the base sheet to other Plans, such as: Utilities Plan, Grading and Drainage Plans and Landscape Plan. Existing and proposed contours or utility lines shall not be shown on Site Plan. Physical features that will remain after the proposed construction has been completed shall be shown. This plan, or the Location Plan, will also show any free zones, construction limits, etc. Whenever the Site Plan occupies more than one sheet of drawings, a Key Plan shall be included. Additional plans showing specific areas of the site in smaller scales can be included if more detail is necessary.

2.2.1.5 Site Details

The Contractor shall provide details for all site furnishings, patios, privacy fence, accessories, handicap accessible ramps, signage, and any other site structure or item requiring a detail for clarity and construction accuracy.

2.2.1.6 Landscape Plan

A detailed Landscape Plan showing trees, shrubs, ground covers, seeded and sodded areas, shall be prepared by the Contractor. The Landscape Plan shall be prepared by a fully qualified, experienced professional Landscape Architect. The Contractor shall specify types of plant materials that are locally grown, commercially available and acclimated to the project environment. The Landscape Plan shall include a plant materials schedule or listing. This schedule shall include botanical names, common names, key, size and the method of transplanting. The Landscape Plan shall also show all un-surfaces ground areas disturbed by construction within the project limits with these areas shown to be seeded or sodded as required.

2.2.1.7 Landscape Details

The Contractor shall verify the methods of planting to meet the project site/installation requirements and provide the necessary Landscape Details to perform the contract design work. Details shall reflect local practices

and conditions for installation.

2.2.1.8 Grading and Drainage Plan

A final grading and drainage plan shall be provided at the same scale as the site plan. New and existing grading contours shall be indicated at 1-foot contour intervals. Indicate the finished floor elevation of new houses and structures. Plans shall show the layout of the new and existing storm drainage and roof drainage systems. Provide spot elevations at building corners, changes in grade, etc. Storm drainage lines and structures shall be labeled. The rim elevation of all manholes, curb inlets, and area inlets shall be indicated. Provide location and description of benchmarks and indicate vertical and horizontal datums.

2.2.1.9 Storm Drain and Culvert Profiles

Provide profiles of any new storm drains and culverts showing new and existing grades, new and existing utilities, pavement sections in detail, pipe diameters and lengths, pipe slopes, invert elevations, etc. Class and gauge of all storm drain and culvert pipes shall be provided.

2.2.1.10 Drainage Structure Details

Provide typical details of all storm drainage structures. Unless otherwise directed, use the details in the Southwestern Division's SWD-AEIM Manual. The use of alternate details shall be approved prior to submitting the final design documents. Show dimensions on either the storm drain schedule, the storm drain profiles, or on the storm drain structure detail drawings.

2.2.1.11 Storm Water Pollution Prevention Plan (SWPPP) Site Map

Provide a site map indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, areas which will not be disturbed, locations of major structural and nonstructural erosion controls identified in the SWPPP, locations where stabilization practices are expected to occur, locations of off-site material, waste, borrow or equipment storage areas, surface waters (including wetlands), and locations where storm water discharges to a surface water.

2.2.1.12 Erosion Control Details

Provide details of Best Management Practices used to control erosion.

2.2.1.13 Typical Pavement Sections and Details

Provide typical driveway, sidewalk, patio, pavement overlay, curb and gutter, curb ramps, and road repair sections and details.

2.2.1.14 Typical Driveway Pavement Joint Layout Plans

Provide typical pavement joint layout plans for each type of housing unit provided. Each type of joint shall be shown with a different symbol and a joint legend provided. Under no circumstances shall pavement joint layout plans be combined with any other plans.

2.2.1.15 Sanitary Sewer and Water Plans

Sanitary sewer and water plans shall show locations of new and existing mains and service lines, elevation of sewer pipe, valves, connections, thrust blocks, manholes, etc. Scale to match site plans.

2.2.1.16 Natural Gas Plans

Scale to match site plans for natural gas plans. Natural gas distribution system plans shall include, but not limited to, the following:

- Locations of existing mains and service lines, including those to be removed.
- Locations of new gas service mains and service lines, including points of connection to existing piping.
- Trench installation Details for both the main lines and the service lines.
- Valve Box Details.
- Gas Service Regulator Assembly Detail.
- Cathodic Protection Details.

2.2.1.17 Electrical Distribution Plans (Scale to match site plan)

Electrical distribution plan shall show site lighting (street and walkway), primary cable routing (new and existing), pad-mounted transformers and switches, and secondary service laterals. Scale to match site plans.

Show the following:

- Site lighting (street and walkway)
- Primary cable routing (new and existing)
- Pad-mounted transformers & switches
- Secondary service laterals

2.2.1.18 On-Site One Line Diagram

2.2.1.19 On-Site Distribution Transformer Schedule Schedule (with the following headings)

- Transformer Designation
- Transformer Size (KVA)
- Building(s) Served
- Primary Phase(s) and Circuit to which connected.

2.2.1.20 On-Site Details(Site Lighting, Trenching, Etc.)

2.2.1.21 Site/Infrastructure Specifications

Construction specifications shall be complete and fully coordinated with the drawings. All specification indexes shall be completely edited to reflect the paragraphs retained in the body of the specification. All references that have not been used in the body of the specification shall be edited from the specification.

Required Site Infrastructure Specifications (100% Complete):

2.2.2 HOUSING UNITS

Submit for each housing type.

- a. Floor Plans: (Scale 1/4" = 1'-0")

For each housing type, show the following:

- Overall dimensions
- Room description with dimensions and areas
- Furniture layouts
- Vanities
- Appliances (including occupant-owned washer, dryer, and micro-wave oven; and contractor-furnished refrigerator, stove, and dishwasher)
- Plumbing fixtures
- Kitchen layout
- Door swings
- Garage locations
- Patio, Walks and Private fencing
- Exterior/Interior bulk storage
- Service (trash) area
- Furnace, AC units, and hot water heater location
- Vents/registers/diffusers
- Calculated gross and net floor areas
- Electrical switches, outlets, telephone jacks, CATV jacks
- Electric light fixture locations and schedule
- Equipment Layout
- Smoke/carbon monoxide detectors

b. Exterior Elevations: (Scale 1/4" or 1/8" = 1'- 0")

For each housing type, show all sides of a building complete with notes indicating the exterior finish materials shall be shown.

c. Interior Elevations: (Scale 1/4" = 1'- 0")

Show the following:

- Kitchen
- Bathrooms

d) Building Cross Sections for Each Type of Building:
(Scale 1/4" = 1'- 0")

For each housing type, show the following:

- Structural system
- Building materials
- Finishes
- Vertical dimensions

e. Typical Wall Section: (Scale 3/4" = 1'- 0")

For each housing type, show the following:

- Typical wall
- Foundation
- Floor and roof section
- Materials
- Cavity wall
- Party wall w/STC rating
- Fire rated construction with UL or Gypsum Association File No.
- Thermal Insulation

f. Finish Schedule

Show finish schedule of all rooms.

g. Fire and Sound Rated Assemblies

Show the construction of fire and sound rated assemblies in detail and note on the drawings the tested design upon which the construction is based. Note any modification to materials or method of construction. Detail all penetrations of rated partitions.

h. Detail References

All details shall be referenced to floor plans, elevations or sections.

i. Kitchen Cabinet Elevations

Kitchen cabinet elevations shall note cabinet sizes.

j. Foundation and Floor Slab Plans (Scale: 1" = 1'-0")

For Each Housing Type show:

--Dimensions and materials of foundation system (If not shown on any other typical drawing)

k. Structural Floor and Roof Framing Plans (SCALE: 1" = 1'-0")

For Each Housing Type show:

--Structural framing members and spacing dimensions

--Details of any main structural framing members or connections such as beams, headers, etc.

l. Architectural Rendering

Contractor shall provide ground level perspective artist's renderings of typical family housing units completed with walks, parking, and landscaping. Renderings shall be no smaller than 14 inches by 18 inches or larger than 28 inches by 36 inches, multi-colored, and shall be suitably titled, matted, and framed.

m. Color Boards

Color Boards shall be submitted showing color and pattern of materials prepared for interior and exterior finish materials, including floor, wall and ceiling finishes, roofing, siding, and trim shall be submitted to Contracting Officer on 8-1/2 inches by 11 inches sample boards/binder format.

n. Consumer Information for Handicapped Requirements

The Contractor shall furnish a report including drawings in accordance with the Uniform Federal Accessibility Standards, paragraph 4.34.4 "Consumer Information" for the modified and adaptable features of each applicable unit type of family housing.

2.2.3 MECHANICAL AND PLUMBING REQUIREMENTS

Required Plans, Diagrams, Schedules, and Details on Unit Mechanical Drawings (100% Design Stages):

a. Mechanical Floor Plan: (Scale: 1/4" = 1'-0")

The floor plans shall show all principle architectural features of the building which will affect the mechanical design. The floor plan shall also show the following:

- Room designations
- Mechanical legend and applicable notes
- Location of all ductwork or piping (double line ductwork required)
- Location and capacity of all terminal units (i.e., registers, diffusers, grilles, hydronic baseboards)
- Exhaust fan and range hood location
- Size of all ductwork and piping shown
- Thermostat location
- Location of heating equipment (i.e., furnace)
- Location of air conditioning equipment
- Return air paths (i.e., undercut doors, transfer grilles)
- Flue piping - size and location
- Piping diagram for forced hot water system (if used)
- Fuel supply and return piping

b. Equipment Schedule Sheet:

Complete equipment schedules shall be provided. Schedule shall also include:

- Capacity
- Electrical characteristics
- Efficiency (if applicable)
- Manufacturer's name
- Any optional features to be provided
- Physical size

c. Details

Construction details, sections, elevations, etc., shall be provided where required for clarification of methods and materials of Design. All roof and exterior wall penetrations shall be detailed on the drawings. (Details shown on the architectural sheets need to be repeated here.)

d. Plumbing Floor Plan: (Scale: 1/4" = 1'-0")

The floor plan shall show all principal architectural features of the building which will affect the plumbing design. The floor plan shall also show the following:

- Room designations
- Fixture Schedule
- Location of utility entrances
- Waste, vent, and hot and cold water pipe locations and sizes
- Fixture designations

- Location of hot water heater
- Plumbing riser diagram

e. Plumbing Plans

Separate plumbing plans will not be required if sufficient information can be shown on the mechanical plans to meet the requirements shown above.

2.2.4 ELECTRICAL REQUIREMENTS

a. Electrical Floor Plan: (Scale: 1/4" = 1'-0")

The floor plans shall show all principle architectural features of the building which will affect the electrical design. The floor plan shall also show the following:

- Room designations
- Electrical legend and applicable notes
- All lighting fixtures, properly identified
- Location of all smoke detectors
- Location of telephone outlets
- Location of television outlets
- All switches for control of lighting
- All receptacles
- The location and designation of all panelboards. Plans should clearly indicate type of mounting required (flush or surface) and be reflected accordingly in specifications.
- Service entrance (conduit and main disconnect)
- Location, designation and rating of all motors and/or equipment which requires electrical service. Show method of termination and/or connection to motors and/or equipment.
- Show all necessary junction boxes, disconnects, controllers (approximate only), conduit stubs, and receptacles required to serve the motor and/or equipment.

b. Building Riser Diagram (from pad-mounted transformer to unit load center panelboard)

Indicate the types and sizes of all electrical equipment and wiring. Include grounding and metering requirements.

c. Unit Load Center Panelboard Schedule(s)

Schedule shall indicate the following information:

- Panelboard Characteristics (Panel Designation, Voltage, Phase, Wires, Main Breaker Rating and Mounting)
- Branch Circuit Designations.
- Load Designations
- Circuit Breaker Characteristics (Number of Poles, Trip Rating, AIC Rating)
- Branch Circuit Connected Loads (AMPS).
- Any Special Features

d. Lighting Fixture Schedule

Schedule shall indicate the following information:

- Fixture Designation
- General Fixture Description
- Number and Type of Lamp(s)
- Type of Mounting
- Any Special Features

e. Details

Construction details, sections, elevations, etc., shall be provided where required for clarification of methods and materials of design.

2.2.5 SUSTAINABLE PROJECT RATING TOOL (SPiRiT)

In accordance the substantiation requirements, update the Contractor's Sustainable Project Rating Tool (SPiRiT) sheets, indicating the status of design related to the listed elements and the achievement level of the various goals listed in PART 1 GENERAL's paragraph DESIGN DOCUMENTS' subparagraph "Sustainable Project Rating Tool (SPiRiT)." Provide written certification of achievement of the specified rating.

2.2.6 HOUSING UNIT SPECIFICATIONS

2.2.6.1 Site Infrastructure Specifications

a. Asbestos Abatement

The Contractor shall review attached asbestos surveys and edit specification Section 13280 ASBESTOS ABATEMENT accordingly. The specification shall identify all asbestos-containing materials to be removed from the units scheduled for demolition and describe all control and removal methods for each type of material. Quantities of each type of material shall be identified in the specification. Questions regarding the asbestos surveys shall be submitted to Contracting Officer. If the Contractor proposes to allow any Category I nonfriable asbestos-containing materials to remain in the units during demolition, such materials shall be identified in the specifications. All specification requirements shall comply with applicable federal and state regulations.

b. Lead-Based Paint

The Contractor shall review attached lead-based paint survey. Any lead-based painted architectural components proposed for removal prior to demolition shall be identified in the specifications and the removal procedures and associated health and safety protocols shall be described. Lead-based painted surfaces that will remain in the units for demolition shall be identified. The specifications shall also discuss proposed disposal of lead-based painted components or surfaces and describe any disposal testing (toxicity characteristic leaching procedure or tc1p).

2.3 DESIGN ANALYSIS & DESIGN CALCULATIONS

Design analysis and design calculations shall include complete site and housing unit descriptions and design calculations for storm drainage improvements, utility distribution systems, structural elements, electrical and mechanical systems, and roadway pavement and shoulder design.

2.3.1 STORM DRAINAGE SYSTEM CALCULATIONS

Storm Drainage System Calculations shall include the following:

- a) Drainage area map showing boundaries of each drainage area and respective drain inlet or culvert.
- b) Storm run-off calculations for each drainage area.
- c) Tabulation of capacities of new storm drains including: diameter and slope of storm drain pipes, design storm discharge and velocity for each storm drain pipe, maximum discharge capacity of each storm drain pipe, headwater depth of each culvert during design storm discharge.
- d) Hydraulic capacity calculations for each new curb and area inlet.

2.3.2 MECHANICAL DESIGN ANALYSIS

Water Supply Calculations: Submit calculations at Final (100 percent) design stages to determine correct main water supply to each unit and/or building.

2.3.3 ELECTRICAL DESIGN ANALYSIS

All design and calculations for the electrical systems shall be performed by a licensed professional engineer with experience in family housing, and shall be stamped as such. The design shall be a separate bound assembly, in one or more volumes, of all the functional and engineering criteria, design information, and calculations applicable to the project design. The analysis shall be organized in a format appropriate for review, approval, and record purposes. The design calculations shall be presented in a clear and legible form, with all methods and references identified, and all assumptions and conclusions explained.

a. Load Calculations

- (1) A separate demand load calculation shall be provided for each type of individual living-unit (per NEC Art. 220). Include catalog cuts of the electrical data for the HVAC equipment that was selected by the mechanical designer.
- (2) A separate demand load calculation shall be provided for each type of multifamily dwelling. (Per NEC Art. 220)
- (3) Calculate the demand load for each pad-mounted distribution transformer by adding all the demand loads (minus the HVAC load), for each type of living unit connected to the transformer, then multiply by the appropriate demand factor found in the following table. Then, the HVAC load and any site lighting loads are added to this figure to arrive at the transformer demand load. (Note that the demand factors in the table shall not be applied to the HVAC loads and the Site Lighting loads, which are included at 100% demand.

DEMAND FACTOR TABLE

Number of Quarters	Demand Factor Percent	Number of Quarters	Demand Factor Percent	Number of Quarters	Demand Factor Percent
1	80.0	19	18.6	37	13.2
2	60.0	20	17.5	38	13.0
3	50.0	21	17.1	39	12.8
4	45.0	22	16.6	40	12.6
5	40.0	23	16.1	41	12.4
6	35.0	24	15.8	42	12.2
7	32.0	25	15.6	43	12.0
8	29.0	26	15.4	44	11.8
9	27.0	27	15.2	45	13.6
10	25.0	28	15.0	46	11.4
11	24.0	29	14.8	47	11.2
12	23.0	30	14.6	48	11.0
13	22.0	31	14.4	49	10.8
14	21.0	32	14.2	50	10.6
15	20.0	33	14.0	51	10.4
16	19.4	34	13.8	52	10.4
17	18.7	35	13.6	53	10.1
18	18.3	36	13.4	54	10.0

(4) Calculate the demand load for each phase of each circuit of the primary distribution system. The loads shall be computed using the same method as outlined for the pad-mounted transformers in the previous paragraph. (Note that for 54 or more living-units, the demand factor shall be 10 percent).

(5) In addition to the complete load calculations required hereinbefore, provide load summary tables which group and identify each type of demand load calculated. (Individual living-units, multifamily dwellings, pad-mounted distribution transformers, and primary phases.)

b) Voltage Drop (VD) Calculations

(1) Select conductor sizes of primary feeders and calculate maximum footage for each phase of each primary circuit, using a maximum allowable VD for each circuit.

(2) Select conductor sizes of site lighting circuits and calculate the VD for each circuit. (Maximum allowable VD = 3 percent).

(3) Select service lateral conductor sizes for each multifamily swelling and calculate the maximum length (in feet) of each different type of service lateral using a maximum allowable VD of 3 percent.

(4) Select unit feeder conductor sizes for each individual living-unit and calculate the VD for the worst case branch circuit. The combined voltage drop for the service laterals, unit feeders, and branch circuit shall not exceed 5 percent.

(5) Short Circuit Calculations: Calculate the available fault current at the main breaker of the individual living-unit load center panel. A coordination study shall be provided for all fuse selections.

2.3.4 Design Checklists, Meeting Minutes, and Annotated Comments

Update and furnish the completed the local Dyess AFB checklists and the Reliability and Maintainability Design Checklists from Air Force ETL 88-4. Include these checklists, along with all meeting minutes and annotated comments, with the final Design Analysis. Checklists are attached to this Section.

2.3.5 Submittal Register

Update the Submittal Register submitted at the Design Development stage , listing submittals for all specification sections that require submittals. Submit four hard copies and on a CD-ROM disk the updated submittal register files and program for this design submittal.

2.3.6 Sustainable Project Rating Tool (SPiRiT)

Update the Contractor's Sustainable Project Rating Tool (SPiRiT) sheets, indicating the status of design related to the listed elements and the achievement level of the required goals. Provide written certification of achievement of the specified rating.

PART 3 EXECUTION

3.1 DRAWINGS

Prepare, organize, and present drawings in the format specified herein. Provide drawings complete, accurate and explicit enough to show compliance with the Contract requirements and to permit construction. Drawings illustrating systems proposed to meet the requirements of the Contract performance specifications shall reflect proper detailing for each such system to assure appropriate use, proper fit, compatibility of components and coordination with the design analysis and specifications required by this section. Coordinate drawings to ensure there are no conflicts between design disciplines and between drawings and specifications. For specific drawing requirements, see paragraphs: DESIGN DEVELOPMENT (60 PERCENT PRELIMINARY DESIGN) REQUIREMENTS and CONSTRUCTION DOCUMENTS (100 PERCENT DESIGN) REQUIREMENTS.

3.1.1 CONSTRUCTION DRAWINGS

3.1.1.1 CADD Drawings

The Contractor shall ensure that all delivered CADD digital files and data (e.g., base files, reference files, cell/block libraries) are compatible with the Government's target CADD system and operating system and shall be furnished to the Government in uncompressed AutoCAD drawing file format (*.DWG) in the version and release currently being used by Dyess AFB (Autodesk Map 5 and AutoCAD 2000). Autodesk Map 5 format is specifically required for certain geo-referenced Dyess AFB site plan (design) drawings to support Dyess AFB's GIS system, as discussed below. DOS MSBACKUP or any other means of file compression is NOT acceptable. The term "compatible" means that data is in native digital format i.e. .dgn, and can be accessed directly by the target CADD system without translation, preprocessing, or postprocessing of the digital data files. It is the responsibility of the Contractor to ensure this level of compatibility.

3.1.1.2 CADD Standards

- a. CADD drawings shall be prepared in accordance with the applicable general and discipline-specific provisions for drawing formats, level/layer assignments, line colors, line weights, and line types of the "Tri-Service A/E/C Standards" and the "SWD Architectural and Engineering Instruction Manual (AEIM), Chapter VIII, "Drafting Standards."
- b. All symbology or blocks developed by either the Contractor or Government shall be interchangeable and adhere to sound architectural graphics standards as per the American Institute of Architects. This does not include such symbology or blocks developed by software vendors which would result in copyright violations.
- c. All title blocks and drawing border shall be drawn full scale (1"=1") in AutoCAD Paperspace. All drawings, including details, shall be drawn full scale (1"=1") and appropriately scaled into AutoCAD Paperspace Viewports.
- d. CADD drawings/lettering are required. No sticky-back or other modifications other than signatures and professional seals may be made to the plotted drawings.
- e. Drawing Files shall be named according to Building/Facility No. ____ Sheet No. (I.E. 5646-01.DWG).
- f. As-Built Drawings: The Contractor shall also comply with the following regarding Contractor-furnished as-built drawings to support Dyess AFB's GIS system:
- g. The CADD standards for design of this project, including seed/prototype files containing the Government's preset standard settings and electronic reference files containing the Government's standard border/title block sheets, are located at the following Web site:

<http://tsc.wes.army.mil/products/standards/aec/aecstdweb.asp>.

The Contractor shall submit a written request for approval of any deviations from the Government's established CADD standards. No deviations will be permitted unless prior written approval of such deviation has been received from the Government.

3.1.1.3 Dyess AFB GIS System

To support Dyess AFB's GIS system, all site plan (design) drawings (Site demolition plan, site features plan, grading plan, utility plan, communication site plan, landscaping plan, irrigation plan, electrical site plan, etc) shall be produced by modifying a single (one) GF, geo-referenced (GR), Autodesk Map 5, Dyess AFB drawing file titled "Base Map.dwg". To produce each required individual project site plan sheet, the Contractor shall insert the trimmed "Base Map.dwg" file into the project drawing viewport via X-reference. Also, the appropriate X-referenced GF utilities files and other GF plan files listed shall be X-referenced and binded to the "Base Map.dwg". For all such geo-referenced design drawings, the Contractor shall indicate on the drawing border which layers are turned on and also indicate just below the sheet title, "This is a Geo-Referenced Drawing."

- a. Reduce File Size: The "Base Map.dwg" shall be trimmed to include only the project site area; and "saved as", Base Map

(Organization/date).dwg. This will reduce the project drawing file size.

b. Maintain Geo-referencing: The Contractor shall maintain geo-referencing orientation, line types, layer colors, layer designations, and symbols as provided on the Government-furnished, geo-referenced drawing file.

c. New Information added by Contractor: The Government-furnished geo-referenced drawing file is layered in compliance with Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) as published by the CADD/GIS Technology Center, Vicksburg, MS. Linetypes, colors, symbology, and data tables are in compliance with this standard. Any new elements that are introduced by Designer during the design process shall also comply with these standards regarding layering, linetypes, color, symbology, and data tables.

d. Errors in Government-furnished, Geo-referenced Drawing File: The Contractor shall make corrections to the Government-furnished, geo-referenced drawing file to be used in the design drawings when discrepancies between the geo-referenced drawing file and the existing site conditions are identified during Designer's field survey to be conducted as part of the normal design effort.

e. Tiff Images: A GF, GR, "Tiles with photos loaded & scaled.dwg" file will be provided/made available to the Contractor which x-references *.tif photo images of Dyess AFB. These images can be loaded and used to digitize any desired features which are not presently shown on the "Base Map.dwg" file.

f. Contour Drawings: New drawing sheets which are intended to show changes to existing contours shall be created on a new layer in the "Base Map.dwg" file. When the project contour is created, the changed contour lines in the new layer shall appear bold-continuous and the existing contour lines shall appear dashed.

g. Design Revisions: The File Name for each new and revised project sheet shall contain in addition to the Sheet Number the company name of the originator/revisor and the date (Example: 7210 SEQ1(CSG 040102).dwg).

3.1.1.4 Size of CADD Drawings

Overall Size of CADD drawings shall be 24 inches by 36 inches, at the trim line. Full size drawings shall be submitted for all design submittals. English working units and the District's standard file-naming convention shall be used.

3.1.1.5 .CAL Files

In addition to copying the electronic CADD drawing files to the Submittals' CD-ROM disk, include the drawings in .cal format so that the drawings may be viewed on screen using MaxView Reader that is located on the Solicitation and Contract CD-ROM disks. Include a "sendable" compiled Project.svd index file, created with MaxView Author, so that the drawings may be viewed by double-clicking on this file. MaxView's web site is <http://www.maxview.com>. Keep the CADD files and the .cal files in separate folders.

3.1.1.6 Drawing Format

Title block shall include, as a minimum, project title and location, sheet title, and sequence number. For each design submittal, each Contractor-prepared drawing shall bear the printed name and signature of the registered architect or appropriate registered engineer responsible for the work portrayed on that drawing and proposed to meet the Contract requirements. For the final submittal, each Contractor-prepared drawing shall bear the stamp or seal and signature of the registered architect or appropriate registered engineer responsible for the work portrayed on that drawing and proposed to meet the Contract requirements.

3.1.1.7 Drawing Scales

Work shall be drawn at the scales listed below. All disciplines should use the same scale for plan sheets. Scale for all drawings and delineation will permit complete legibility. A graphic bar or checkerboard scale will be provided on each sheet near the lower left hand corner of the sheet. Unless specified elsewhere, conventional scale standards are as follows:

<u>ENGLISH)</u>	
Site Plans (Buildings)	No smaller than 1-inch = 30 feet
Floor Plans (Note 1)	1/8-inch to 1/4-inch = 1 foot
Roof Plans	1/8-inch = 1 foot
Exterior Elevations	1/8-inch = 1 foot
Interior Elevations	1/4-inch
Cross Sections	1/4-inch to 1/8-inch
Wall Sections (Note 3)	3/4-inch = 1 foot
Stair Details	3/4-inch = 1 foot
Details (Note 2)	1 1/2 inches or 3 inches = 1 foot
Reflected Ceiling Plans	1/8-inch = 1 foot
Interior Toilet Elevations	3/4-inch to 1/2-inch
Wall Types	1 1/2 inches or 3 inches = 1 foot

Notes:

1. Scale of composite plans shall be as required so that the entire facility is drawn on one sheet without break lines.

2. The details shall be large enough to show all fixtures, accessories, equipment, materials, manner of construction, clearances required for proper maintenance, and complete dimensions. Toilet rooms and Equipment rooms are examples of the kind of spaces which shall be drawn as a Detail Plan. All details containing sheet metal flashing shall be 3 inches = 1 foot.

3. May be 3/4-inch = 1 foot if pertinent details are shown at larger scale.

3.1.2 DRAWINGS SEQUENCE

Arrange drawings by design discipline in accordance with the SWD-AEIM, Chapter VIII, Appendix A, Plate D1, Standard Arrangement Of Drawings.

3.2 CONSTRUCTION SPECIFICATIONS

The Contractor shall use commercially available guide specifications for

developing construction specifications, such as "SpecText" published by The Construction Specifications Institute (<http://csi.worldweb.net/technic/master/spectextms.htm>), and "MasterSpec" published by The American Institute of Architects (<http://www.arcomnet.com/>), or BSD SpecLink (Building Systems Design, Inc., Atlanta, GA, <http://csi.worldweb.net/technic/master/bsdms.htm> and http://www.bsdsoftlink.com/speclink/sl_frame.htm), or manufacturers' product specifications utilizing CSI's Manu-Spec format. These specifications shall conform to the applicable criteria requirements indicated in the solicitation (Section 01000, Parts 1-15). Format shall be the Construction Specification Institute (CSI) 16-Division, 3-Part Section format. Sections shall be numbered in accordance with CSI MasterFormat. No two sections shall have the same section number. The specifications shall clearly identify, where appropriate, the specific products chosen to meet the requirements of the specifications (manufacturers' brand names and model numbers or similar product information). The Contractor shall be responsible for coordinating references, along with the technical requirements, to specific specification sections (number and title) within the project specifications. Section references (title and number) shall be revised to reflect the titles and numbers of specification sections used. Specific required modifications to Commercial Guide Specifications are:

- a. Indicate the guide specification series (e.g. CSI SpecText, MasterSpec, SpecLink) in either the header or footer of each section.
- b. Change references to the "Architect" or "Engineer" to "Contracting Officer" and "Owner" to "Government".
- c. Change references to "Section 01300" or "Section 01300 SUBMITTALS" to "Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES."

3.2.1 DIVISION 1 SPECIFICATION SECTIONS

Include Division 1 specifications sections contained in this Contract as part of the project specifications without change.

3.2.2 FORMAT FOR CONSTRUCTION SPECIFICATIONS

Submit the construction specifications, including cover page and project table of contents, printed using a word processor. Use the Corps of Engineers Specsintact with SGML, Version 3.0 or higher, software to edit the Corps of Engineers' mandatory sections. Use good quality white paper. The corrected final (100 percent) specifications with review comments incorporated shall be cleaned up (without marked-up edits) and submitted in both hard copy and on magnetic media (Microsoft Windows compatible CD-ROM disk(s) and compatible with the Microsoft Word 2000 format. Cover page, specifications, and attachments shall be prepared in a Microsoft Word (compatible with Microsoft Word 97) format. Carbon copies are not acceptable..

The Cover page shall be similar to the Contract Cover page and shall include:

- a. Project title, Project Number, activity and location
- b. Construction contract number
- c. Construction Contractor's name and address

d. Design firm's name and address

e. Names of design team members (Designers of record) responsible for each Contractor prepared technical discipline of the project specification

f. Name and signature of a Principal of the design firm

The Table of Contents shall list the 16 Divisions contained in CSI format and the specification section numbers and titles contained in the project specification.

The Corps of Engineers Specsintact and Wordspec software can be downloaded from the Internet at the following address:

<http://kscdl2.ksc.nasa.gov/specsintact/>.

The Corps of Engineers UFGS guide specifications (SI SGML format), the Lighting Fixture Standard Drawing 40-06-04 Details and Design Criteria (e.g. Army Technical Manuals (TM's), Engineering Manuals, Engineering Technical Letters, Engineer Circulars, Engineer Pamphlets, Design Guides, and Military Handbooks) can be downloaded from the Internet at the following address:

<http://www.hnd.usace.army.mil>, then click on Techinfo then Guide Specifications, "Engineer Publications", or "Support Documents"

The guides can only be downloaded in Winzip *.zip files. These are downloadable executable files.

Specsintact software, the UFGS guide specifications, and designcriteria manuals can also be obtained from the current version of the Construction Criteria Base CD, issued by the National Institute of Building Sciences, telephone number 202/289-7800, fax number 202-289-1092, internet address is:

<http://www.nibs.org>.

Fort Worth District guide specifications and the District supplements to the UFGS guide specifications are located on the Internet at the following address:

<http://www.swf.usace.army.mil/links/e&c/ec-a/>

3.3 CONSTRUCTION SUBMITTALS

All construction submittals shall be in accordance with Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES.

Construction submittal types and products, including the submittal description numbers and data package numbers, shall be included in the specification sections, where required. When appropriate, use specific product terms instead of the generic product terms contained in the specifications sections (e.g., asphalt shingles, built-up roofing, EPDM single ply, etc. vs roof covering; concrete masonry units, brick, metal siding, etc. vs exterior skin; mineral fiber board, block, batt or blanket, polystyrene, polyurethane, polyisocyanurate board vs insulation).

3.3.1 SUBMITTAL REGISTER (FORM)

Prepare and maintain a Submittals Register in accordance with Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES. An electronic version of the ENG Form 4288 is located on the Solicitation and Contract Award CD-ROM disks in folder "Subreg." This version is the Specsintact DOS Submittal Register program and includes a Readme.txt file. Copy the files to the computer's C:\ drive, remove the read-only attributes, and then double-click on either file "subreg.exe" or on "submit.bat." This is **not** a Windows-based program so the mouse **does not** work. Editing instructions are on-screen, such as press the "F5 (add)" and then the "E" keys to create new empty submittals, the "PgDn" key to complete editing, and the "A" key to accept. For each submittal, fill in the Section Number, Activity Number if applicable, Paragraph Number, Description, Type of Submittal (e.g. SD-01 through SD-11(See Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES)), Classification (e.g. G or FIO), and the Contractor's proposed submittal date. Fill in columns "a" through "o" on the ENG Form 4288 and submit a copy of the "Subreg" folder with the updated files and a hard copy of the register as required for the various construction submittals. Unless Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES allows a submittal to be Government approved ("G"), all submittals shall be "FIO" for Information Only (Contractor Approved) items. A blank MS Excel version of the Form 4288 Submittal Register is also included in the "Subreg" folder and may be used if allowed by the Contracting Officer.

3.4 DESIGN ANALYSES

Prepare design analyses (basis of design and calculations) for each applicable design discipline. The design analyses shall be a presentation of facts to demonstrate that the concept of the project is fully understood and that the design is based on sound engineering. The design analysis for each discipline shall include:

a. A basis of design consisting of:

- (1) An introductory description of the project concept which addresses the salient points of the design;
- (2) An orderly and comprehensive documentation of criteria, rationale, assumptions and reasoning for system selection.

b. Calculations required to support the design. Complete site and housing unit design calculations for utility distributions systems, structural elements and electrical and mechanical systems. Include computations for sizing equipment, air duct design, and U-factors for ceilings, roofs and exterior walls and floors. Also include final passive energy strategy performance calculations for each housing unit type. Contractor shall employ commercially available energy analysis techniques to determine the energy performance of all passive systems and features. Use of hourly energy load computer simulation (e.g., TRNSYS, DOE 2.1 Blast, etc.) is required. Performance calculations shall also determine the peak cooling load of all passive solar unit types. These calculations can be used to size the unit's mechanical systems.

c. Equipment Schedule. Based on the results of calculations, provide a complete list of the materials and equipment proposed for heating and plumbing, with the manufacturer's published cataloged product installation specifications and roughing-in data. The heating equipment

data shall include the manufacturer's wiring diagrams, installation specifications, ARI certification, and the standard warranty for the equipment. In addition, provide the manufacturer's published cataloged capacities for supply diffusers as evidence that the arrangement of supply air outlets in each room will provide the throw and spread characteristics required to cover completely all exterior wall surfaces with the blanket of warm air at the proper design velocities.

d. Project Engineering Considerations and Instructions (ECI) for Final Design Analysis.

The Contractor shall not make reference to the RFP solicitation to avoid stating the requirements for the basis for design.

3.4.1 ENGINEERING CONSIDERATIONS AND INSTRUCTIONS (ECI) FOR FIELD PERSONNEL

3.4.1.1 Separate Appendix

Under a separate appendix in the Final Design Analysis, the Design-Build Contractor shall include the following items:

- a. Features critical to the quality of the final construction product requiring special attention.
- b. Submittals requiring special attention during construction.
- c. Special user requirements or instructions.
- d. Assumed field conditions, pertinent significant aspects, or critical phases of the project used as a basis of project design.

3.4.1.2 Format

Format for ECI's shall include the following information:

"ENGINEERING CONSIDERATIONS AND INSTRUCTIONS

Project Name: _____

Location: _____

Designer Name: _____ Phone: _____

Discipline: _____

Design-Build designers have prepared the following engineering considerations and instructions (ECI). These ECI's should be followed during the construction of the above project. If you have any questions, contact the appropriate Design-Build designer."

3.4.1.3 Distribution of ECI's

In addition to including ECI's in a separate appendix of the final design analysis and after acceptance of the 100 percent corrected design and prior to the start of construction, the design-build Contractor shall e-mail a copy of the ECI's to the appropriate U.S. Army Corps of Engineer's Field representative for his consideration with a copy also sent to the appropriate individual in following office(s): CENWO-CD-QR and CENWO-PM-M.

The Government will provide the names and e-mail addresses to the

design-build Contractor at either the pre-design or pre-construction conference.

3.4.2 REQUESTS FOR INFORMATION, MEETING MINUTES AND COMMENTS

Copies of Requests for Information (RFI) made by the Contractor to the Government shall be included as an appendix to the design analysis. An index of each RFI, which documents the RFI number, the date RFI given to Government, the date the RFI is answered and the Action Response provided by the Government.

A copy of all meeting minutes and design review comments (if any) with action responses shall be included as an appendix to the design analysis.

Appendices for RFI's and Meeting Minutes and design review comments shall have page numbering that follows the same format as for Calculations listed above.

3.5 DESIGN CERTIFICATION

The Contractor shall provide certification signed by an officer of the Contractor's company attesting that the drawings, specifications and design analyses prepared for the construction of the facility meet the requirements of the Contract. The certification shall accompany the submission of the design documents along with names and disciplines for the designers of record. This design certification shall include a list of deviations (variations) from the solicitation or accepted final design. Prepare the design certification and transmittal letter in the format shown on Attachment A included at the end of this section.

3.6 COMMON DESIGN DEFICIENCIES

The work involved in making corrections due to common deficiencies becomes lost effort and time for both the designer and the reviewer. Carefully compare the design and contract documents with all requirements at several points in the design process to avoid unnecessary changes at a later date. Some of the requirements which are most often overlooked include:

a. Requirements of the COE 2, Southwestern Division's ARCHITECTURAL AND ENGINEERING INSTRUCTIONS MANUAL (SWD-AEIM) have been repeatedly overlooked in the past.

b. Failure to incorporate the Fort Worth District's supplemental local requirements to the Corps of Engineers' UFGS guide specifications.

c. Not using correct abbreviations or terminology on the drawings. Abbreviations must match what is used on the standard abbreviation sheet and terminology must match what is used in the standard technical guide specifications.

d. Not using the correct scales, north arrow designation, section cut system, or incomplete dimensioning on the drawings.

e. Not providing sufficient space for door operation hardware at doors which swing into a wall running perpendicular to the opening. 4 inches minimum is required between edge of door frame and perpendicular walls.

f. Not providing correct and complete Design Analysis information written in the present tense. The Design Analysis will be written following the format indicated herein. A separate Fire Protection section

in the Design Analysis with input from all disciplines is one area which is often overlooked and shall be included.

g. Not correctly presenting or coordinating (to avoid interference) features of Fire Protection, Noise Control, and Physical Security.

h. Not correctly referencing and cross referencing building sections, wall sections, details, etc.

i. Failure to read and use technical notes in editing the Guide Specifications.

j. Failure to coordinate all disciplines prior to submittal of projects for review.

k. Improper use of fire-retardant wood. Fire-retardant wood is combustible; its use in buildings that are of noncombustible construction is extremely limited (see ICBO Bldg Code for the minor allowable uses). Because of the potential for severe degradation, fire retardant plywood shall not be used in a roof or roofing system, or in structural applications.

l. Not listing the ANSI/BHMA numbers in addition to trade names in door hardware specifications and failure to correctly specify hardware finishes.

m. Control joints in CMU walls and brick expansion joints in face brick are not shown on both architectural plans, elevations and structural plans, or are inconsistent. Note also control joint locating and coordination for floor tile per Tile Council of America recommendations.

n. Failure to delete all publications which do not apply to the particular project.

o. North is not oriented the same direction on all sheets (civil, site, arch).

Attachment A

[Contractor's Letterhead]

[Date: _____]

[Contract No. _____]

[Reviewing Component Address]

Subj: DESIGN CERTIFICATION AND TRANSMITTAL FOR
[Project Title _____]
[Project Location _____]
[Contract No. _____]

Gentlemen

Enclosed are the following documents, which I hereby certify are in compliance with the RFP requirements of the subject construction contract and can be used to commence construction subject to Government approval:

1. Design Drawings
2. Project Specification
3. Design Analysis
 - a. Civil
 - b. Water Supply and Wastewater Collection
 - c. Architectural
 - d. Interior Design
 - e. Structural
 - f. Mechanical
 - g. Fire Protection
 - h. Electrical
 - i. Environmental Protection, Compliance and Permits
 - j. Health and Safety
- k. Sustainable Design
4. Submittals Register

[Typed Name and Signature of an
Officer of the Contractor's Company]

5. All other Design Submittals
6. Deviations

Copy to:
[As standard with the Contractor]

-- End of Section --

APPENDIX NO. 16

DD FORM 1354, SAMPLE, AND CATEGORY CODES

TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY														Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, Va 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.														PAGE	OF	PAGES			
1. FROM (Installation/Activity/Service and Zip code)				2. OPERATING UNIT		3. DISTRICT CODE		4. OPERATING AGENCY		5. DATE		6. JOB NUMBER		7. SERIAL NUMBER		8. CONTRACT NUMBER			
9. TO (Installation/Activity/Service and Zip code)				10. OPERATING UNIT		11. DISTRICT CODE		12. OPERATING AGENCY		13. ACCOUNTING NUMBER		14. ACCOUNTABLE OFFICE NUMBER		15. TYPE OF TRANSACTION A. <input type="checkbox"/> NEW CONSTR. <input type="checkbox"/> EXISTING FAC. <input checked="" type="checkbox"/> CAPITAL IMP. <input type="checkbox"/> OTHER (Specify) B. <input type="checkbox"/> BENF/O <input type="checkbox"/> PHYSICAL COM. <input type="checkbox"/> FINAN. COM. <input type="checkbox"/> OTHER (Specify)				16. PROJECT NUMBER	
ITEM NO. 17	CATEGORY CODE 18	FACILITY (Category description) 19	NO. OF UNITS 20	TYPE 21	UNIT OF MEAS. 22	TOTAL QUANTITY 23	COST 24	DRAWING NUMBERS 25	REMARKS 26										
27. STATEMENT OF COMPLETION: The facilities listed hereon are in accordance with maps, drawings, and specifications and change orders approved by the authorized representative of the using agency except for the deficiencies listed on the reverse side.														28. ACCEPTED BY (Signature)				DATE	
TRANSFERRED BY (Signature)														DATE				TITLE (Post Engr./Base Civ. Engr./Navy Rep.)	29. PROPERTY VOUCHER NUMBER
TITLE (Area Engr./Base Engr./DPWO)																			

30.

CONSTRUCTION DEFICIENCIES

31. REMARKS

INSTRUCTIONS

This form has been designed and issued for use in connection with the transfer of military real property between the military departments and to or from other government agencies. It supersedes ENG Forms 290 and 290B (formerly used by the Army and Air Force) and NAVDOCKS Form 2317 (formerly used by the Navy).

Existing instructions superseded by this form.

extent that the various items and columns on the superseded forms have been retained. Additional instructions, as appropriate, will be promulgated by the military departments in connection with any new items appearing hereon.

With the issuance of this DD form, it is not intended that the departments shall revise and reprint manuals and directives simply to show the number of this DD form. Such action can be accomplished through the normal

TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY

Form Approved
OMB No. 0704-0188

PAGE 1 OF 2 PAGES

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1. FROM (Installation/Activity/Service and Zip code) USAED, Ft. Worth Corps of Eng P.O. Box 17300 Ft. Worth, Texas, 76102-0300	2. OPERATING UNIT	3. DISTRICT CODE	4. OPERATING AGENCY	5. DATE	6. JOB NUMBER	7. SERIAL NUMBER	8. CONTRACT NUMBER 63-XX-C-XXX
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9. TO (Installation/Activity/Service and Zip code)	10. OPERATING UNIT	11. DISTRICT CODE	12. OPERATING AGENCY	13. ACCOUNTING NUMBER	14. ACCOUNTABLE OFFICE NUMBER	15. TYPE OF TRANSACTION A. <input checked="" type="checkbox"/> NEW CONSTR. <input type="checkbox"/> EXISTING FAC. <input type="checkbox"/> CAPITAL IMP. <input type="checkbox"/> OTHER (Specify) B. <input type="checkbox"/> BENF/O <input type="checkbox"/> PHYSICAL COM. <input type="checkbox"/> FINAN. COM. <input type="checkbox"/> OTHER (Specify)	16. PROJECT NUMBER
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ITEM NO.	CATEGORY CODE	FACILITY (Category description)	NO. OF UNITS	TYPE	UNIT OF MEAS.	TOTAL QUANTITY	COST	DRAWING NUMBERS	REMARKS
17	18	19	20	21	22	23	24	25	26
1	530155	Blood Process Lab	1	P	SF	20,623	\$2,309,500.00		
2	812225	Primary Distribution Line U.G.		P	LF	2,058	\$128,237.00		
3	824464	Gas Mains		P	LF	131	\$29,230.00		1 1/2" Line
4	832266	San Sewer Main		P	LF	236	\$24,383.00		4"=95 LF; 6"=140 LF
5	841161	Water Supply Main		P	LF	259	\$36,753.00		16"=40 LF
6	851143	Curbs & Gutter		P	LF	640	\$5,860.00		3"=76 LF; 6"=75 LF
7	852261	Vehicle Parking Lot		P	SY	1,248	\$51,486.00		
8	852289	Sidewalk		P	SY	634	\$9,987.00		

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TRANSFERRED BY (Signature)			DATE		TITLE (Post Engr./Base Civ. Engr./Navy Rep.)				29. PROPERTY VOUCHER NUMBER	
TITLE (Area Engr./Base Engr./DPWO)										

TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY

Form Approved
OMB No. 0704-0188

PAGE 2 OF 2 PAGES

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9. TO (Installation/Activity/Service and Zip code)	10. OPERATING UNIT	11. DISTRICT CODE	12. OPERATING AGENCY	13. ACCOUNTING NUMBER	14. ACCOUNTABLE OFFICE NUMBER	15. TYPE OF TRANSACTION A. <input checked="" type="checkbox"/> NEW CONSTR. <input type="checkbox"/> EXISTING FAC. <input type="checkbox"/> CAPITAL IMP. <input type="checkbox"/> OTHER (Specify) B. <input type="checkbox"/> BENF/O <input type="checkbox"/> PHYSICAL COM. <input type="checkbox"/> FINAN. COM. <input type="checkbox"/> OTHER (Specify)	16. PROJECT NUMBER
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ITEM NO. 17	CATEGORY CODE 18	FACILITY (Category description) 19	NO. OF UNITS 20	TYPE 21	UNIT OF MEAS. 22	TOTAL QUANTITY 23	COST 24	DRAWING NUMBERS 25	REMARKS 26
9	871183	Storm Drain		P	LF	98	\$5,835.00		
10	872245	Fence		P	LF	230	\$28,659.00		
11	93220	Landscaping		P	SY	5,000	\$92,433.00		
12	93310	Demolition		P	EA	1	\$7,119.00		
							\$2,729,500.00		Sub Total E&D During Construction Contingencies Work by Others S&A Construction Cost P&D Costs Total Cost

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TRANSFERRED BY (Signature)		DATE	TITLE (Post Engr./Base Civ. Engr./Navy Rep.)		29. PROPERTY VOUCHER NUMBER
TITLE (Area Engr./Base Engr./DPWO)					

CATEGORY CODE	DESCRIPTION	UOM	METRIC UOM
71115	FAMILY HOUSING	SF	M2
81113	ELECTRIC POWER, COAL FIRED	KV	
81115	ELECTRIC POWER, OIL FIRED	KV	
81117	ELECTRIC POWER, GAS FIRED	KV	
81121	ELECTRIC POWER, NUCLEAR	KV	
81122	ELECTRIC POWER, PHOTOVOLTAIC	KV	
81150	UNINTERRUPTABLE POWER SUPPLY	KV	
81160	STANDBY GENERATOR	KV	
81171	ELECTRIC POWER, HYDRO	KV	
81230	EXTERIOR LIGHTING	LF	M
81241	OVERHEAD ELECTRIC LINES	LF	M
81242	UNDERGROUND ELECTRIC LINES	LF	M
81320	SUBSTATION	KV	
81350	ELECTRIC SWITCHING STATION	KV	
81360	TRANSFORMERS	KV	
82110	HEATING PLANT, COAL FIRED	MB	
82117	HEATING PLANT, DUAL-FUEL	MB	
82118	HEATING PLANT, WOOD-FIRED	MB	
82120	HEATING PLANT, OIL-FIRED	MB	
82130	HEATING PLANT, GAS-FIRED	MB	
82140	HEATING PLANT, NUCLEAR	MB	
82150	HEATING PLANT, STEAM	MB	
82160	HEATING PLANT, ELECTRIC	MB	
82182	HEATING PLANT, SOLAR	MB	
82187	HEATING PLANT, GEOTHERMAL	MB	
82210	STEAM CONDENSATE LINES	LF	M
82220	HOT WATER LINES	LF	M
82221	HOT/CHILLED WATER LINES	LF	M
82240	STEAM LINES	LF	M
82310	GAS GENERATING PLANT	MB	
82410	GAS PIPELINES	LF	M
82610	A/C REFRIGERATION PLANT	TN	MT
82625	HEAT PUMP	TN	MT
82710	CHILLED WATER DISTRIBUTION SYSTEM	LF	M
83110	PRIMARY WASTE WATER TREATMENT	KG	
83112	SECONDARY WASTE WATER TREATMENT	KG	
83113	ADVANCED WASTE WATER TREATMENT	KG	
83120	SEPTIC TANK AND DRAIN FIELD	KG	
83130	RAW SEWAGE LAGOON/OXIDATION POND	KG	
83140	INDUSTRIAL WASTE TREATMENT PLANT	KG	
83150	SEWAGE LIFT STATION	KG	
83180	GRAVITY OIL/GREASE SEPARATOR	KG	
83181	WATER AND GRIT SEPARATOR	KG	
83210	SANITARY SEWER LINES	LF	M
83220	COMBINED SEWER	LF	M
83240	INDUSTRIAL WASTE SEWER	LF	M
83310	INCINERATOR FACILITY	TN	MT
83312	REFUSE COLLECTION FACILITY	TN	MT

CATEGORY			METRIC
<u>CODE</u>	<u>DESCRIPTION</u>	<u>UOM</u>	<u>UOM</u>
83320	RECYCLING FACILITY	TN	MT
83410	SANITARY LANDFILL	AC	
83420	HAZARDOUS WASTE LANDFILL	AC	
84110	WATER TREATMENT PLANT	KG	
84125	FILTER PLANT FACILITY	KG	
84130	WATER WELL, POTABLE	KG	
84141	PUMP STATION, POTABLE	KG	
84150	CHLORINATOR FACILITY	KG	
84210	WATER DISTRIBUTION LINES, POTABLE	LF	M
84215	SUPPLY MAIN, POTABLE	LF	M
84330	FIRE PROTECTION SYSTEM, NONPOTABLE	LF	M
84450	CHLORINATOR FACILITY, NONPOTABLE	KG	
84470	WATER WELL, NONPOTABLE	KG	
84472	PUMP STATION, NONPOTABLE	KG	
84510	WATER DISTRIBUTION LINES, NONPOTABLE	LF	M
84610	WATER STORAGE TANKS, POTABLE	GA	L
84620	RESERVOIR, POTABLE	GA	L
84710	WATER STORAGE TANKS, NONPOTABLE	GA	L
84720	RESERVOIR, NONPOTABLE	GA	L
84730	FIRE PROTECTION POND	GA	L
84740	WATER RETAINING BASIN	GA	L
85110	CANTONMENT AREA ROADS, SURFACED	SY	M2
85120	VEHICLE BRIDGE	SY	M2
85130	CANTONMENT AREA ROADS, UNSURFACED	SY	M2
85150	CANTONMENT AREA TANK TRAIL	SY	M2
85210	ORG. VEHICLE PARKING, SURFACED	SY	M2
85211	ORG. VEHICLE PARKING, UNSURFACED	SY	M2
85212	STAGING/MARSHALLING AREA	SY	M2
85215	NONORG. VEHICLE PARKING, SURFACED	SY	M2
85216	NONORG. VEHICLE PARKING, UNSURFACED	SY	M2
85218	NONORG. VEHICLE PARKING GARAGE	SY	M2
85220	SIDEWALKS AND WALKWAYS, SURFACED	SY	M2
85221	SIDEWALKS AND WALKWAYS, UNSURFACED	SY	M2
85225	PAD	SY	M2
85230	PEDESTRIAN BRIDGE	SY	M2
85710	TRAINING AREA ROADS, SURFACED	SY	M2
85715	TRAINING AREA ROADS, UNSURFACED	SY	M2
85720	TRAINING ATEA TANK TRAILS, SURFACED	SY	M2
85725	TRAINING AREA TANK TRAILS, UNSURFACED	SY	M2
85730	TRAINING AREA BRIDGE	SY	M2
86010	RAILROAD TRACKS	MI	M2
86110	RAILROAD BRIDGE	LF	M
86120	CRANE TRACKS	LF	M
86130	RAILROAD SCALES	LF	M
86140	COAL TRESTLE	LF	M
87110	STORM SEWER	LF	M
87120	DRAINAGE DITCH	LF	M
87130	IRRIGATION FACILITY	LF	M

CATEGORY			METRIC
<u>CODE</u>	<u>DESCRIPTION</u>	<u>UOM</u>	<u>UOM</u>
87140	DIKES	LF	M
87150	RETAINING STRUCTURE	LF	M
87171	POLLUTANT DRAINAGE SYSTEM	LF	M
87210	FENCING AND WALLS	LF	M
87250	GATE	LF	M
87255	FIRE BREAKS	LF	M
88010	FIREALARM SYSTEM	BX	
88020	WATCH REPORTING SYSTEM	BX	
88030	AIR RAID ALARM SYSTEM	BX	
88040	INTRUSION ALARM SYSTEM	BX	
88045	RADIATION SENSING DEVICE	BX	
88110	AUTOMATIC WATER SPRINKLER SYSTEM	SF	M2
88120	SPECIAL FIRE EXTINGUISHING SYSTEM	SF	M2
88130	STANDPIPE SYSTEM	SF	M2
89111	POWER PLANT BUILDING	SF	M2
89112	ACETYLENE PLANT	SF	M2
89113	POWER SUBSTATION/SWITCHING STATION BLDG	SF	M2
89115	ENVIRONMENTAL TEST LABORATORY	SF	M2
89117	INERT GAS FACILITY	SF	M2
89120	PLANT/UTILITIES BUILDING	SF	M2
89121	HEATING PLANT BUILDING	SF	M2
89123	COMPRESSED AIR PLANT	SF	M2
89126	REFRIGERATION/AIR CONDITIONING BUILDING	SF	M2
89130	HAZARDOUS BUILDING	SF	M2
89131	SEWAGE/WASTE TREATMENT BUILDING	SF	M2
89132	OXYGEN PLANT	SF	M2
89133	REFUSE AND GARBAGE BUILDING	SF	M2
89141	WATER SUPPLY/TREATMENT BUILDING, POTABLE	SF	M2
89144	WATER SUPPLY BUILDING, NONPOTABLE	SF	M2
89148	WATER STORAGE BUILDING	SF	M2
89150	SHREDDER FACILITY	SF	M2
89210	MONITORING WELLS	EA	M2
89215	ENVIRONMENTAL TEST FACILITY	EA	M2
89220	ENERGY MANAGEMENT CONTROL SYSTEM	EA	
89221	SEWAGE HOLDING TANK	EA	
89225	GAS STORAGE TANK	EA	
89226	VAPORIZER STATION	EA	
89230	TRAFFIC SIGNALS	EA	
89235	FREQUENCY CONVERTER	EA	
89240	FIRE HYDRANTS	EA	
89245	FOAM MIX TANK	EA	
89250	RAILROAD CROSSING SIGNALS	EA	
89260	DECORATIVE FOUNTAIN/POND	EA	
89270	DAM	EA	
89280	LIGHTNING PROTECTION SYSTEM	EA	
89285	IMPROVED LAND - USAREUR	AC	
89286	SEMI-IMPROVED LAND – USAREUR	AC	
89287	UNIMPROVED LAND – USAREUR	AC	
89310	INERT GAS LINE	LF	

CATEGORY			METRIC
<u>CODE</u>	<u>DESCRIPTION</u>	<u>UOM</u>	<u>UOM</u>
89320	COMPRESSED AIR LINE	LF	M
89330	VACUUM LINE	LF	M
89340	UTILDORS	LF	M
89410	COOLING TOWER	CM	
89510	IMHOFF TANK	GA	L
89520	POLLUTANT CATCH BASIN	GA	L
89530	SEWAGE HOLDING TANK	GA	L
89540	FOAM MIX TANK	GA	L
89550	WASTE POL STORAGE TANK	GA	L
89560	HAZARDOUS WASTE HOLDING TANK	GA	L
93210	SITE CLEARING AND GRADING	SY	M2
93220	LANDSCAPE PLANTTING	SY	M2
93310	DEMOLITION	EA	
93410	CUT AND FILL	CY	M3

Units of Measure

UNIT OF MEASURE	DESCRIPTION
-----	-----
AC	ACRES
BL	BARRELS (42 Gallons Liquid)
BX	BOXES
CM	CUBIC FEET PER MINUTE
CY	CUBIC YARDS
EA	EACH
GA	GALLONS
KG	THOUSANDS OF GALLONS PER DAY
KV	KILOVOLT - AMPERES
LF	LINEAR FEET
MB	MILLIONS OF BRITISH THERMAL UNITS
MI	MILES
SF	SQUARE FEET
SY	SQUARE YARDS
TN	TONS (2,000 POUNDS OR COOLING CAPACITY)
M2	SQUARE METERS
L	LITERS
M	METERS
M3	CUBIC METER
KL	THOUSAND OF LITERS PER DAY
MT	METRIC TON